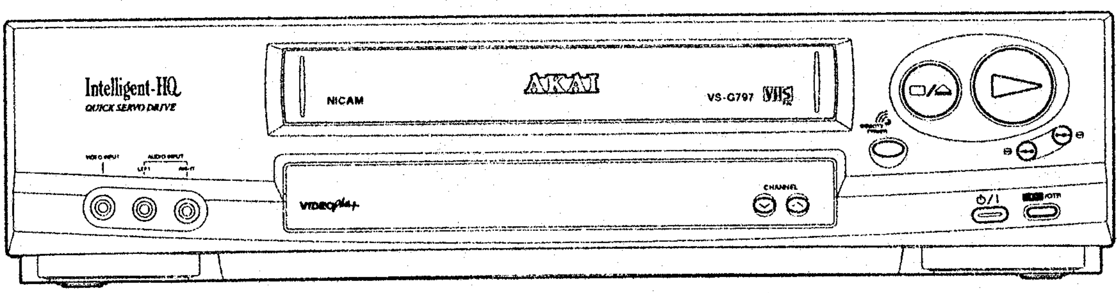
AKAI SERVICE MANUAL


Intelligent-HQ
QUICK SERVO DRIVE
NICAM
AKAI
VS-G797
VHS
VIDEO INPUT
AUDIO INPUT
CHANNEL

MODEL VS-G797EK-N

HQ HIGH QUALITY VHS PAL SECAM

SHOWVIEW® G-CODE

VIDEOPlus+

VIDEO CASSETTE RECORDER

MODEL VS-G780 EDG/EO-N/SEG-N

MODEL VS-G781 EK-N/EO-D/EO-DN/SEG-N

MODEL VS-G785 EA-D

MODEL VS-G786 SEG-N

MODEL VS-G791 EO-D

MODEL VS-G795 EA-D

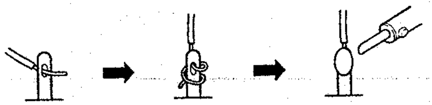
MODEL VS-G796 EDG/EK-N/EO-D/EO-DN/SEG-N

MODEL VS-G797 EK-N

★ SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

1. Parts identified by the ⚠ symbol are critical for safety. Replace them only with the parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with the specified replacements.
   Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts.
   Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (insulating barriers)
   4) Insulation sheets for transistors
   5) Plastic screws for fixing micro switches
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap the ends of the wires securely around the terminals before soldering.



6. Make sure that wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Make sure that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.
The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resistor of 1500 ohms paralleled with a 0.15 µF capacitor, under the unit's normal working conditions.
The leakage-current should be less than 0.5 mA rms AC.
The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 M ohms.

MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.
Please leave them at an appropriate depot.

★ SPECIFICATIONS (AKAI brand models)

Format	VHS standard
Video recording system	Rotary, slant azimuth two head helical scan system
Rotary heads	4 video heads and 2 audio heads
RF input	
EA-D	System B,G VHF: ch 0 - 5, 5A, 6 - 12, UHF: ch 21 - 69
EDG	System D,K VHF: ch 1 - 12, UHF: ch 21 - 69 System B,G VHF: ch 2 - 12, UHF: ch 21 - 69 Cable: ch S1' - S3', S1 - S41
EK-N	System I UHF: ch 21 - 69
EO-D/EO-DN/EO-N	System B,G (PAL,SECAM) VHF: ch 2 - 4, 5 - 12, UHF: ch 21 - 69 Cable: ch S1' - S3', S1 - S41
SEG-N	System L VHF: ch B - C, 1 - 6, UHF: ch 21 - 69 Cable: ch B - Q System B,G VHF: ch 2 - 4, 5 - 12, UHF: ch 21 - 69 Cable: ch S1' - S3', S1 - S41
RF output	
EA-D	System G type modulation UHF ch 30 - 39 adjustable (preset: ch 37)
EDG	System K/G type modulation (switch) UHF ch 30 - 39 adjustable (preset: ch 36)
EK-N	System I type modulation UHF ch 21 - 69 adjustable (or off) (preset: ch 35)
EO-D/EO-DN/EO-N	System G type modulation UHF ch 30 - 39 adjustable (preset: ch 36)
Stereo system	
EA-D/EO-D	German sound Multiplex (A2)
EK-N	I-NICAM (U.K. NICAM)
EO-DN	German sound Multiplex (A2) & B/G NICAM
EO-N	B/G NICAM
SEG-N	SECAM-L NICAM & PAL B/G NICAM
Recording (line input)	
785EA-D & EK-N (except 797 [Y6])	PAL
795EA-D/797EK-N[Y6]	PAL, NTSC (3.58/4.43)
EDG	PAL, SECAM (recorded as MESECAM), NTSC (3.58/4.43)
EO-D/EO-DN/EO-N	PAL, SECAM (recorded as MESECAM)
SEG-N	SECAM, PAL, MESECAM
Playback (line output)	
785EA-D & EK-N (except 797 [Y6])	PAL, simulated PAL (NTSC tape)
795EA-D/797EK-N[Y6]	PAL, NTSC (3.58/4.43) (NTSC tape), simulated PAL (NTSC tape)
EDG	PAL, SECAM (MESECAM tape), NTSC (3.58/4.43) (NTSC tape), simulated PAL (NTSC tape)
EO-D/EO-DN/EO-N	PAL, SECAM (MESECAM tape), simulated PAL (NTSC tape)
SEG-N	SECAM, PAL, MESECAM, simulated PAL (NTSC tape)
Video	
Line input level	0.5 - 2.0 Vp-p/75 ohms, unbalanced
Line output level	1.0 Vp-p/75 ohms, unbalanced
S/N ratio	More than 45 dB
Horizontal resolution	More than 250 lines (PAL) More than 220 lines (SECAM: SEG-N only) More than 220 lines (NTSC)
Audio (VHS Hi-Fi: 2 ch, Linear: 1 ch)	
Line input level	–6 dBs/50 k ohms, unbalanced
Line output level	–6 dBs/1 k ohms, unbalanced
Dynamic range	More than 90 dB (VHS Hi-Fi)
Frequency response	20 - 20,000 Hz (VHS Hi-Fi)
Wow & Flutter	Less than 0.005 % WRMS (VHS Hi-Fi)
Recording/Playback time	
CCIR	240 min. with E-240 cassette in SP mode 480 min. with E-240 cassette in LP mode
NTSC	160 min. with T-160 cassette in SP mode 480 min. with T-160 cassette in EP mode (except 795EA-D, EDG, 797EK-N[Y6]; playback only)
Tape speed	
CCIR	23.39 mm/sec. in SP mode 11.695 mm/sec. in LP mode
NTSC	33.35 mm/sec. in SP mode 11.12 mm/sec in EP mode
Quick finder	
CCIR	Approx. 11 times normal speed in both SP/LP modes
NTSC	Approx. 7 times normal speed in both SP/EP modes
FF, RWD time	Approx. 2.5 min. with E-180 cassette
Timer	
Program	8 programs/1 year and OTR
Clock reference	Quartz crystal
Display	TV screen & FLD (tape counter, timer, etc.)
Power requirement	220 - 240 V AC, 50 Hz
Power consumption	
G785EA-D	16 W
G795EA-D	21 W
EDG	15 W
EK-N/SEG-N/EO-D/EO-DN/EO-N	17 W
Operating temperature	5°C - 40°C
Dimensions	380 (W) x 93 (H) x 298 (D) mm
Weight	3.6 kg

Standard accessories

AC cord	1
Antenna cable	1
21 pin AV cable	1 (SEG-N only)
21 pin RCA cable	1 (G797EK-N [Y5] only)
Remote control unit	1
Batteries for remote control	2
Operator's manual	1

0 dBs = 0.775 VRMS

* For improvement purposes, specifications and design are subject to change without notice.
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The VIDEO Plus+ system is manufactured under licence from Gemstar Development Corporation.
* ShowView is a trademark of Gemstar Development Corporation.
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* G-CODE is a trademarks of Gemstar Development Corporation.
The G-CODE system is manufactured under license from Gemstar Development Corporation.

★ SPECIFICATIONS (non-AKAI brand models)

Format	VHS standard
Video recording system	Rotary, slant azimuth two head helical scan system
Rotary heads	4 video heads and 2 audio heads
RF input	System B,G (PAL,SECAM) VHF: ch 2 - 4, 5 - 12, UHF: ch 21 - 69 Cable: ch S1' - S3', S1 - S41
RF output	System G type modulation UHF ch 30 - 39 adjustable (preset: ch 36)
Stereo system	
3088CE	German sound Multiplex (A2)
Except 3088CE	B/G NICAM
Recording (line input)	PAL, SECAM (recorded as MESECAM)
Playback (line output)	PAL, SECAM (MESECAM tape), simulated PAL (NTSC tape)
Video	
Line input level	0.5 - 2.0 Vp-p/75 ohms, unbalanced
Line output level	1.0 Vp-p/75 ohms, unbalanced
S/N ratio	More than 45 dB
Horizontal resolution	More than 250 lines (PAL) More than 220 lines (NTSC)
Audio (VHS Hi-Fi: 2 ch, Linear: 1 ch)	
Line input level	–6 dBs/50 k ohms, unbalanced
Line output level	–6 dBs/1 k ohms, unbalanced
Dynamic range	More than 90 dB (VHS Hi-Fi)
Frequency response	20 - 20,000 Hz (VHS Hi-Fi)
Wow & Flutter	Less than 0.005 % WRMS (VHS Hi-Fi)
Recording/Playback time	
CCIR	240 min. with E-240 cassette in SP mode 480 min. with E-240 cassette in LP mode
NTSC (playback only)	160 min. with T-160 cassette in SP mode 480 min. with T-160 cassette in EP mode

Tape speed	
CCIR	23.39 mm/sec. in SP mode 11.695 mm/sec. in LP mode
NTSC	33.35 mm/sec. in SP mode 11.12 mm/sec in EP mode
Quick finder	
CCIR	Approx. 11 times normal speed in both SP/LP modes
NTSC	Approx. 7 times normal speed in both SP/EP modes
FF, RWD time	Approx. 2.5 min. with E-180 cassette
Timer	
Program	8 programs/1 year and OTR
Clock reference	Quartz crystal
Display	TV screen & FLD (tape counter, timer, etc.)
Power requirement	220 - 240 V AC, 50 Hz
Power consumption	17 W
Operating temperature	5°C - 40°C
Dimensions	380 (W) x 93 (H) x 298 (D) mm
Weight	3.6 kg

Standard accessories

AC cord	1
Antenna cable	1
Remote control unit	1
Batteries for remote control	2
Operator's manual	1

0 dBs = 0.775 VRMS

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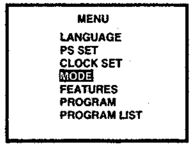
The ShowView system is manufactured under licence from Gemstar Development Corporation.

★ INFORMATION

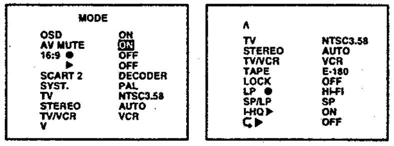
MULTI FUNCTION MENU MODE

This is an on-screen display of the various modes you can programme via the TV screen.

TV SCREEN



LANGUAGE	: To select a language for the on-screen displays.
PS SET	: To preset or cancel TV stations.
CLOCK SET	: To set the clock and AUTO ADJUST TV station.
MODE	


MODE

OSD ON
AV MUTE ON
16:9 ● OFF
▶ OFF
SCART 2 DECODER
SYST. PAL
TV NTSC3.58
STEREO AUTO
TV/VCR VCR
V

Λ
TV NTSC3.58
STEREO AUTO
TV/VCR VCR
TAPE E-180
LOCK OFF
LP ● HI-FI
SP/LP SP
I-HQ ▶ ON
↺▶ OFF

	: To set OSD (on screen display ON/OFF), AV MUTE (ON/OFF), 16:9 (REC ON/OFF, PB ON/OFF), SCART-2 (DECODER/AV2), SYST. (color system PAL/MESECAM/NTSC → PAL/NTSC4.43), TV (NTSC3.58, NTSC4.43, NTSC → PAL), STEREO (AUTO/MONO), TV/VCR, TAPE (E-180, 195, 210, 240, 260, 300), LOCK (OFF/ON), LP • (Hi-Fi/MONO) SP/LP, I-HQ (ON/OFF) and ↺▶ (repeat ON/OFF).
FEATURES	: To perform ↺0 (return to counter zoro), INTRO (intro scan) or T. TUNING (tape tuning) functions.
PROGRAM	: To set manual timer recording.
PROGRAM LIST	: To review the times, dates or cancel programs that you have entered for timer recording.

If necessary, refer to the respective sections in the operator's manual for detailed information.

※ Some modes are not available on certain models.

1. Press the "MENU" button on the remote control unit. The menu list screen will be displayed on the TV screen.
2. Select the desired menu with the "∧" or "∨" button.
3. Press the "OK" button. The selected menu screen will be displayed on the TV screen.
4. Select the desired mode (or function) with the "∨" or "∧" button. The number of the modes (or functions) depends on the sort of the menu.
5. Set the each mode (or function) by pressing the "∨" or "∧" button and ">" or "<" button.
6. Press the "OK" button. The selected menu screen will be disappeared few seconds after the "OK" button is pressed. This means the setting has been completed correctly.

MANUAL TRACKING/PICTURE/STABILITY ADJUSTMENT

Using the remote control, the VCR can be adjusted for tracking and picture sharpness anytime during the playback mode.

- Manual tracking control
  Press the "<" or ">" button repeatedly until the picture is clear. During manual tracking adjustment, the tracking position is shown on the TV screen, and disappears automatically after adjustment has been completed. Use this function when performing the A/C HEAD phase adjustment.
- Picture sharpness control
  Press the "∧" button repeatedly to sharpen the picture or press the "∨" button to soften the picture.
- Stability adjustment

1) To correct picture shake during the slow motion or still mode:
   Press the "∧" or "∨" button repeatedly until the picture shake is corrected.
2) To correct tracking during the still mode:
   Press the "<" or ">" button repeatedly until the picture is clear.

ERROR ANNOUNCEMENT

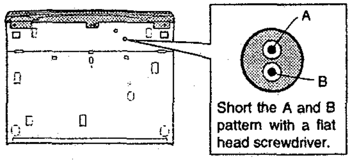
When a malfunction occurs, the following error indicators appear on the FL display to indicate the problem when the power is turned off.

Err 1 : AL power supply has short circuited.
Err 2 : The loading motor has stopped.
(When the mechanism position detect switch is not able to read the specified code, that is to say not able to reach the specified position within the specified time.)
Err 3 : The drum motor has stopped.
(When the drum motor does not rotate due to condensation, etc.)
Err 4 : The capstan motor has stopped.

PRESETS IN THE TEST MODE

1) Engaging the "TEST MODE"

To set the VCR to the test mode, firstly short the reset circuit pattern located on the bottom as shown below, with a flat head screw driver (This will ground the reset pin of the system control MI-COM). Next, plug in the AC power cord while pressing and holding both the "STANDBY/ON" and "STOP/EJECT" buttons (on the FRONT PANEL) at the same time.

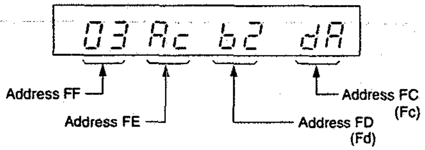


Short the reset circuit pattern to disengage the "TEST MODE". (The test mode is not disengaged, even if the AC power cord is disconnected, without shorting the reset circuit.

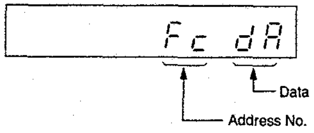
NOTE: Once the system control MI-COM is reset, clock and program data will be cancelled.

2) Model code preset

1. Engage the "test mode". (Never turn the power on.) The model code will be displayed in the FL display in 8 *digit form.*



2. While pressing both the "FF" and "RWD" buttons, reset the system control MI-COM and keep holding the "FF" and "RWD" buttons until the address number (typically, Fc or Fb) appears.
   The address number will be shown in 2 digits in the hours display of the FL display and its data will be shown in 2 digits in the minutes display.



3. Select address "Fc" by pressing the "FF" or "FWD" button if the address "Fc" is not appeared.
4. Choose the data in the address Fc column, that corresponds to the model number you are working on, from the following list. Set the chosen data value by pressing the "STOP/EJECT" or "PLAY" button.

MODEL	MODEL CODE	ADDRESS			
		Fc	Fd	FE	FF
VS-G780EDG	038F80d0	d0	80	8F	03
VS-G780EO-N	03Ac80d0	d0	80	Ac	03
VS-G780SEG-N	038c80d2	d2	80	8c	03
VS-G781EK-N	01A08050	50	80	A0	01
VS-G781EO-D	03Ac80d0	d0	80	Ac	03
VS-G781EO-DN	03Ac80d0	d0	80	Ac	03
VS-G781SEG-N	038c80dA	dA	80	8c	03
VS-G785EA-D	00008158	58	81	00	00
VS-G786SEG-N	03Ac92dA	dA	92	Ac	03
VS-G791EO-D	03Ac92d8	d8	92	Ac	03
VS-G795EA-D	0003A158	58	A1	03	00
VS-G796EDG	038FA0d8	d8	A0	8F	03
VS-G796EK-N	01A0b258	58	b2	A0	01
VS-G796EO-D	03Acb2d8	d8	b2	Ac	03
VS-G796EO-DN (E,Y1,Y3)	03Acb2d8	d8	b2	Ac	03
VS-G796EO-DN (S)	038cA0d8	d8	A0	8c	03
VS-G796SEG-N	03Acb2dA	dA	b2	Ac	03
VS-G797EK-N (B)	01A0b2d8	d8	b2	A0	01
VS-G797EK-N (Y6)	01A3A0d8	d8	A0	A3	01
VCR3088CE	03A4b6d8	d8	b6	A4	03
VCR1938NE	03A4b6d8	d8	b6	A4	03
VCR3088NE	03A4b6d8	d8	b6	A4	03
VCR4088NE	03A4b6d8	d8	b6	A4	03
VCR6858NE	03A4b6d8	d8	b6	A4	03

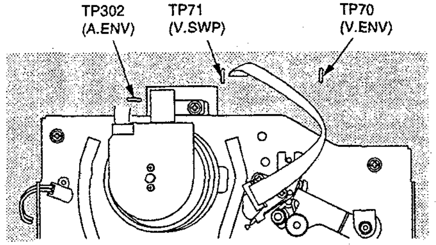
(On the FL display, B, C and D are indicated with small letters.)

5. Memorize the data into the EEP ROM IC by pressing the "REC" button.
6. The address "Fd" and its data will be shown in the FL display approx 2 seconds later automatically. Repeat the presetting (steps 4 to 5) for addresses "Fd", "FE" *and "FF" in the same manner as address "Fc".*
7. Reset the system control MI-COM to disengage the model code preset mode.

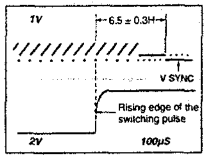
NOTE : This model code preset is absolutely necessary when the IC404 (EEP-ROM) on the MAIN PCB is replaced.

3) Video switching point preset

1. Engage the "test mode" and press the "POWER" button.
2. Connect CH-1 of an oscilloscope to VIDEO OUT and CH-2 to the TP71 (V-SWP) on the MAIN PCB for triggering.



3. Play back the reference tape TF-530RFS (Part No. : AT-751775). Check the channel display of the FL display so that "1F" (center position in the tracking range) is indicated at this point. If not indicated, press the "<" or ">" button on the remote control until "1F" is indicated.
4. Press the "REC" button during playback.
5. Confirm that the switching point is positioned 6.5 ± 0.3 H before the left edge of the V-sync as shown.



NOTE:

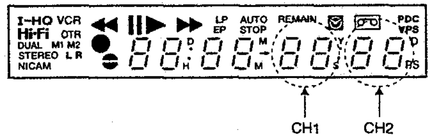
a) Make sure that the A/C head phase adjustment has been adjusted correctly before making video switching point preset. (Refer to step 4-3)
b) This switching point preset is absolutely necessary after the folllowing replacements.

- When the video head Assy is replaced.
- When the DRUM MOTOR PCB is replaced.
- When the SERVO/SYSCON MI-COM or EEP ROM IC (IC404) on the MAIN PCB is replaced.

4) Memorization of the reference RF envelope detect voltage (I-HQ)

For correct operation of the I-HQ tape tuning system, memorization of the reference RF envelope detect voltage is absolutely necessary. When the VIDEO HEAD Assy or EEP ROM IC (IC404) in the MAIN PCB is replaced for any reason, memorize the reference RF envelope detect voltage according to the following procedure.

1. Engage the test mode.
2. Turn the VCR power ON.
3. Insert the I-HQ test tape "TF-556AT" (AT-751822J) and then select the "FEATURE" mode in the menu screen. Input a colour bar signal to the VIDEO IN terminal then perform "T.TUNING" by using the remote control. Observe the seconds (CH1) and channel (CH2) display so that "- -" and "- -" should not be displayed in neither the SP nor LP modes after the tape tuning has completed. If "- -" and "- -" are displayed, perform tape tuning again until a satisfactory result is obtained.



4. Set the tape speed to "SP mode".
5. Make a recording on the I-HQ test tape for more than 1 minute and then rewind it to the point where the recording was started.
6. Play back the tape. Reference RF envelope detect voltage data in the memory is displayed in 2 digits in the minutes display part of the FL display and the present envelope detect voltage data is displayed in 2 digits in the seconds display part (the data is displayed in hexadecimal numbers).
7. After the auto tracking has been activated, press the "CANCEL" button on the remote control unit. So present RF envelope detect voltage data will be transferred to the minutes part's 2 digits and memorized in the EEP ROM IC.
8. Next, set the tape speed to "LP mode" and repeat the steps 5 to 7.
9. Terminate the test mode.

5) Other facilities in the test mode

1. Tracking position display

In the "SP play" mode, tracking position data can be displayed on the FL display. Data is displayed in 64 steps in hexadecimal numbers from "00" to "3F" in the channel display part on the FL display. Pressing the "TV/VCR" button on the remote control unit during playback directly sets the tracking to the maximum "3F" position.

Pressing the "PLAY" button during playback sets tracking to the center position "1F" automatically. If "1F" does not appear even when the "PLAY" button is pressed, keep pressing the "<" or ">" cursor button on the remote control until "1F" is indicated and then press the "OK" button to memorize the position.

2. Suspension of the tape protection system

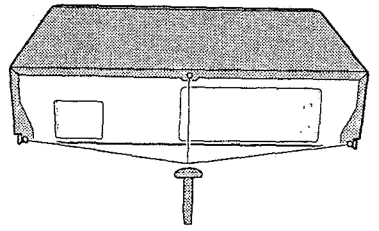
When the VCR is not in the "test mode", the "REC PAUSE" mode will be released after 30 minutes in order to protect the tape. The "STILL" mode will also be released after 5 minutes. During the "test mode", however this tape protection system will not operate.

※ Video head rotation will stop 5 min. after the "REC PAUSE" mode has been engaged even during the test mode.

I. DISASSEMBLY

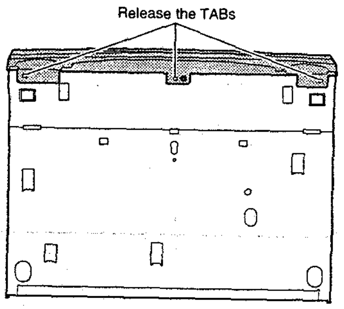
In case of trouble, etc., necessitating dismantling, please dismantle in the order shown in the illustrations.
Reassemble in the reverse order.
When reattaching the FRONT PANEL, hold the cassette loading slot door in the upright (open) position.

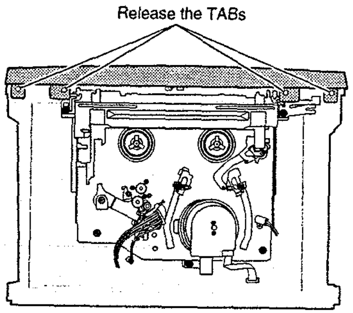
1. Removal of UPPER COVER



Lift the back part of the UPPER COVER up to remove.

2. Removal of FRONT PANEL





II. PRINCIPAL PARTS LOCATION

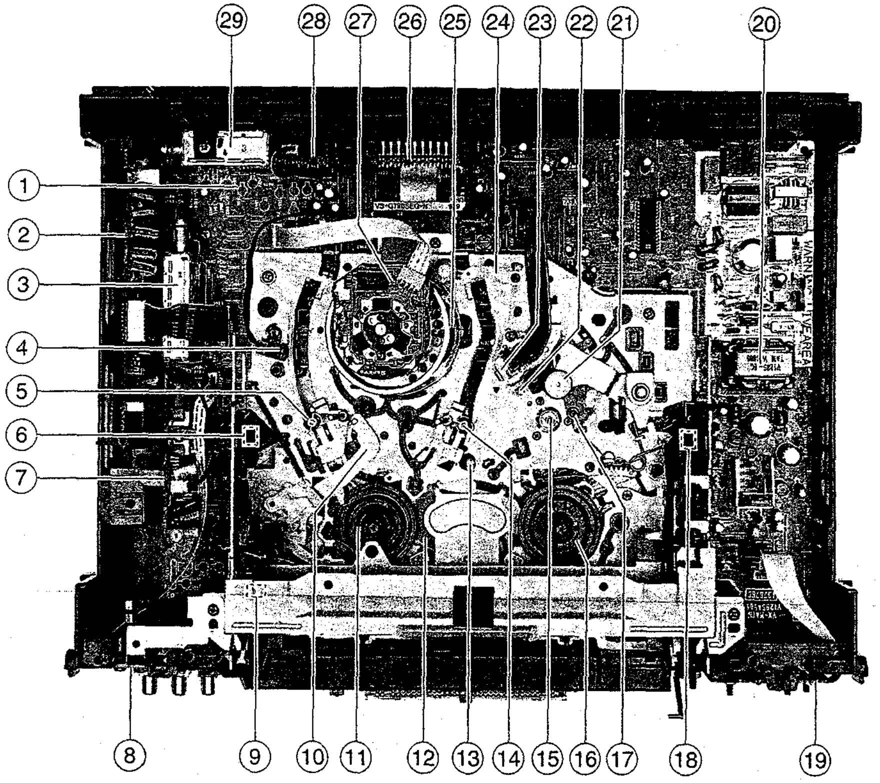


Fig. 2-1 Top view

1. MAIN PCB
2. NICAM PCB (except EA-D/EDG/EO-D/3088CE models)
3. TUNER UNIT
4. FULL TRACK ERASE HEAD
5. GUIDE LEADER (L) BLOCK
6. TAPE END SENSOR
7. VIF Hi-Fi PCB (except EDG/SEG-N models)
   VIF EDG PCB (EDG models only)
   VIF SEG PCB (SEG-N models only)
8. FRONT INPUT PCB (EDG, 795EA-D, 796EK-N/EO-D/EO-DN/SEG-N, 797EK-N models only)
   FRONT INPUT (OEM) PCB (OEM models only)
9. REC SAFETY SWITCH
10. TENSION ARM
11. REEL DISK (S)
12. IDLER ARM PART
13. SENSOR LED
14. GUIDE LEADER (R) BLOCK
15. CAPSTAN MOTOR
16. REEL DISK (T)
17. REVIEW ARM
18. TAPE START SENSOR
19. OPERATION PCB (AKAI models only)
    OPERATION (OEM) PCB (OEM models only)
20. PULSE POWER TRANSFORMER
21. PINCH ROLLER ARM
22. TAKE UP TAPE GUIDE
23. A/C (AUDIO/CONTROL/SIDE TRACK ERASE) HEAD
24. HEAD CLEANER BLOCK
25. ROTARY HEAD BLOCK
26. SCART SOCKET PCB (except EA-D models)
    REAR RCA PCB (EA-D models only)
27. DRUM MOTOR PCB
28. AUDIO OUT PCB (AKAI models except EA-D only)
    AUDIO OUT (OEM) PCB (OEM models only)
29. RF CONVERTER/BOOSTER UNIT

※ The photograph on this page is of model VS-G796SEG-N.

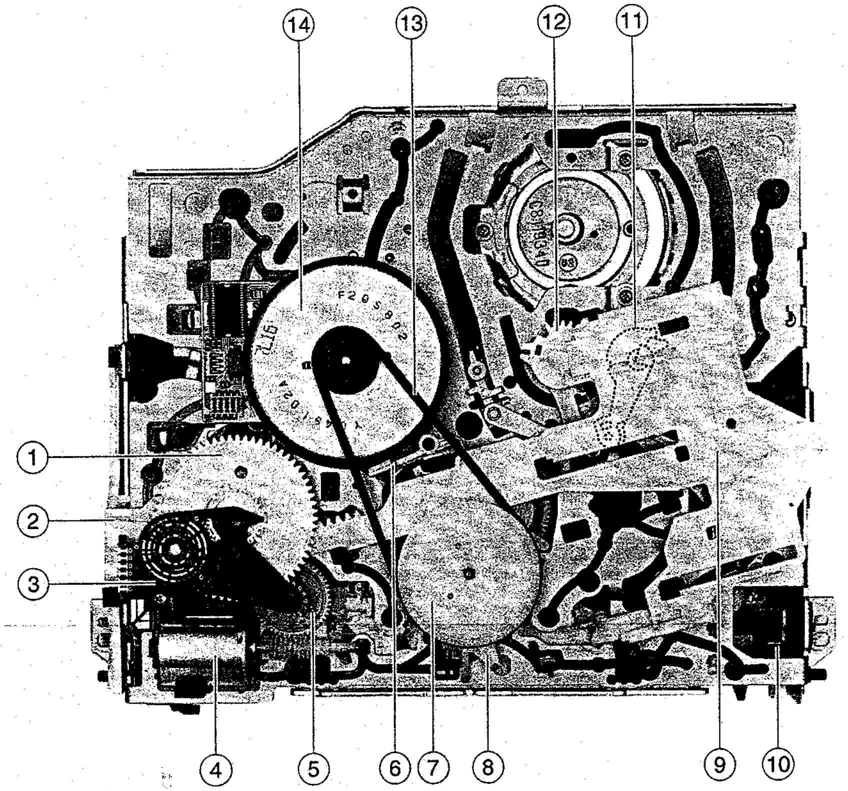


Fig. 2-2 Bottom view of the mechanism block

1. CENTER CAM GEAR
2. LOADING SLIDE
3. MODE DETECT SWITCH
4. LOADING MOTOR
5. WHEEL GEAR
6. SLOW ARM BRAKE
7. CLUTCH DISK PART
8. COUPLING ARM
9. MAIN SLIDER
10. LOADING ARM BLOCK
11. TOGGLE LEVER (L)
12. TOGGLE GEAR (R)
13. CAPSTAN BELT
14. CAPSTAN MOTOR BLOCK

III. DISASSEMBLY OF THE MAIN COMPONENTS

3-1. REMOVAL OF THE MECHANISM BLOCK

NOTE: Some parts in the mechanism block require complete removal of the mechanism block from the chassis when performing servicing.
Set the loading mechanism to the "EJECT" position by pressing the "EJECT" button, then disconnect the AC power plug from the AC socket before proceeding. This sets the loading mechanism to the "reference position".

1) Disconnect the flat cable on the DRUM MOTOR PCB as shown in Fig. 3-1.

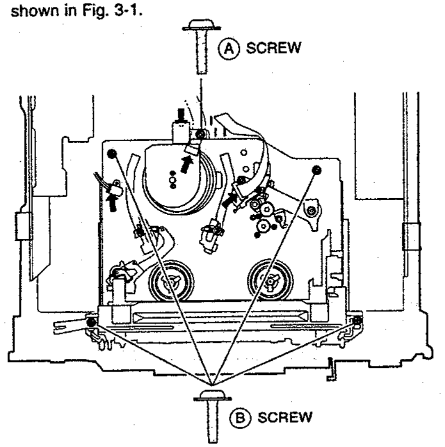


Fig. 3-1

2) Disconnect the connectors on the FULL TRACK ERASE HEAD and A/C HEAD.
3) Remove the Ⓐ screw and shield cover then disconnect the flat cable carefully.
4) Remove the four Ⓑ retaining screws and remove the MECHANISM BLOCK.

3-2. REMOVAL OF THE EJECTOR BLOCK

3-2-1. Removal of the CASSETTE HOLDER BLOCK

1) Remove the UPPER CHASSIS by pushing the Ⓐ part in the direction of the arrow while pressing the STOPPER, as shown in Fig. 3-2.

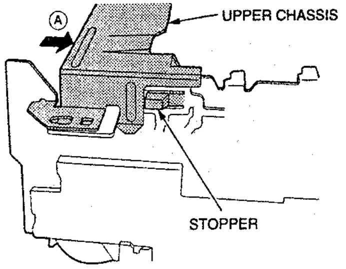


Fig. 3-2

2) Disengage the right end of the CASSETTE HOLDER BLOCK from its rail while pulling the STOPPER outwards.

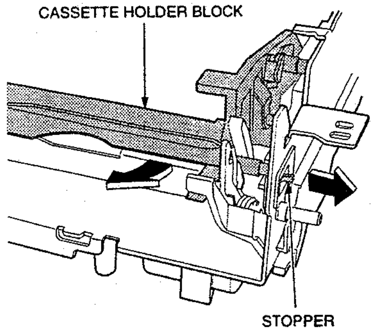


Fig. 3-3

3) Carefully pull the CASSETTE HOLDER BLOCK in the upper right direction and remove it from the mechanism block.

3-2-2. Removal of the LOADING ARM BLOCK

1) Connect a 6 V battery to the LOADING MOTOR or turning the LOADING MOTOR shaft manually, position the LOADING ARM to about 30° from vertical, as shown in Fig. 3-5.

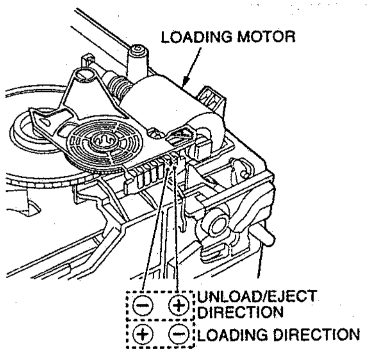


Fig. 3-4

NOTE: To avoid adding excessive stress to the mechanism, the voltage should not exceed 6V when connecting a battery to the LOADING MOTOR.

2) While pulling the left side STOPPER outwards, pull out the left end of the LOADING ARM from the bracket and remove the LOADING ARM BLOCK from the mechanism as shown in Fig. 3-5.

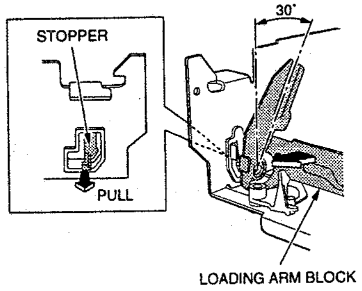

30°
STOPPER
PULL
LOADING ARM BLOCK

Fig. 3-5

3) Re-assemble in the reverse order for installation. Re-position the LOADING ARM angle to the reference (EJECT) position before attaching the CASSETTE HOLDER BLOCK.

3-3. DISASSEMBLY OF THE LOADING DRIVE BLOCK

3-3-1. Removal of the LOADING MOTOR and MODE DETECT SWITCH

1) Remove the retaining screw then turn the LOADING MOTOR BLOCK in the direction of the arrow while releasing the Ⓐ and Ⓑ hooks, as shown in Fig. 3-6.

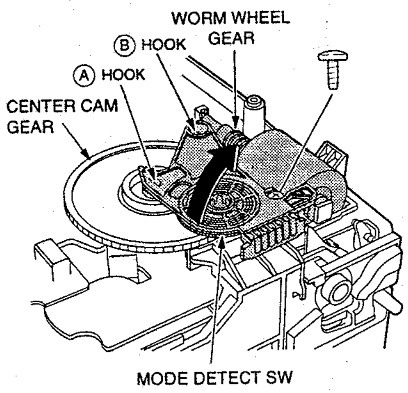

WORM WHEEL GEAR
Ⓑ HOOK
Ⓐ HOOK
CENTER CAM GEAR
MODE DETECT SW

Fig. 3-6

2) Press the lower side of the LOADING MOTOR in the direction of the arrow and then remove the LOADING MOTOR BLOCK (shown in Fig. 3-7) taking care not to damage the Ⓐ part.

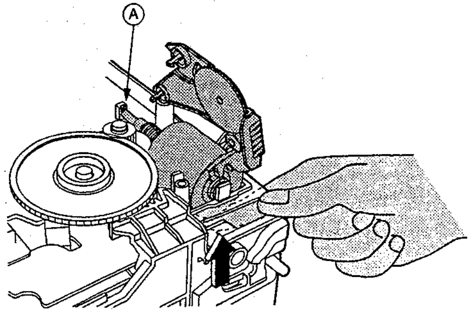


Fig. 3-7

3-3-2. Removal of the MAIN SLIDER

1) Remove the LOADING MOTOR BLOCK and CENTER CAM GEAR.
2) Remove the CAPSTAN BELT and CLUTCH DISK PART (carefully release the stopper on the shaft when removing).

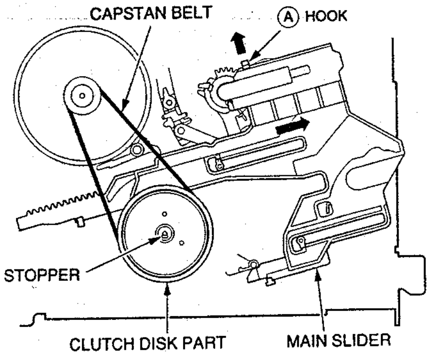

CAPSTAN BELT
Ⓐ HOOK
STOPPER
CLUTCH DISK PART
MAIN SLIDER

Fig. 3-8

3) Slide the MAIN SLIDER in the direction of the arrow and pull out the MAIN SLIDER while carefully releasing the Ⓐ hook, as shown in Fig. 3-8.

3-3-3. Removal of the TOGGLE GEAR (R) and TOGGLE LEVER (L)

1) First disengage the TOGGLE LEVER (L)'s lever from the GUIDE LEADER (L)'s pin then release the stopper on the TOGGLE LEVER (L), as shown in Fig. 3-9.

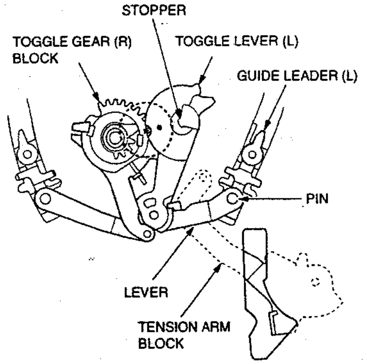

STOPPER
TOGGLE GEAR (R) BLOCK
TOGGLE LEVER (L)
GUIDE LEADER (L)
PIN
LEVER
TENSION ARM BLOCK

Fig. 3-9

2) Remove the TOGGLE LEVER (L) and TOGGLE GEAR (R).

3-4. REASSEMBLY OF THE LOADING DRIVE BLOCK

3-4-1. Position of the TOGGLE GEAR (R) and TOGGLE LEVER (L)

1) With your fingers, set both the GUIDE LEADERs (R) and (L) and TOGGLE GEAR (R) and TOGGLE LEVER (L) to the unloaded position. Align the mark on the TOGGLE LEVER (L) and ► mark on the TOGGLE GEAR (R), as shown in Fig. 3-9.

NOTE: Before positioning the TOGGLE LEVER (L), confirm that the TENSION ARM is positioned as shown by the dotted line in Fig. 3-9.

3-4-2. Installation of the MAIN SLIDER

1) Position the TENSION ARM LEVER and SUPPLY BRAKE's pin as shown by the dotted line respectively and then slide the MAIN SLIDER a little to the left along the three guides, as shown in Fig. 3-10.

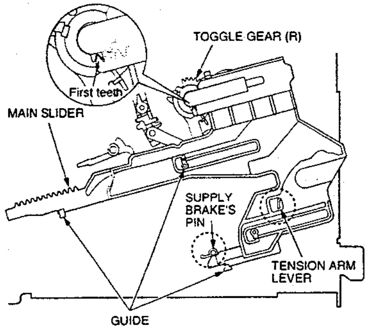

TOGGLE GEAR (R)
First teeth
MAIN SLIDER
SUPPLY BRAKE'S PIN
TENSION ARM LEVER
GUIDE

Fig. 3-10

2) Align the TOGGLE GEAR (R) timing so that the first teeth of the MAIN SLIDER align between the first and second tooth of the TOGGLE GEAR (R). Engage the HOOK and the MAIN SLIDER by pressing the MAIN SLIDER (near the HOOK) downwards.
3) Attach the CLUTCH DISK PART and CAPSTAN BELT.

3-4-3. Installation of the CENTER CAM GEAR

1) Fully slide the MAIN SLIDER to the right (unloaded position).

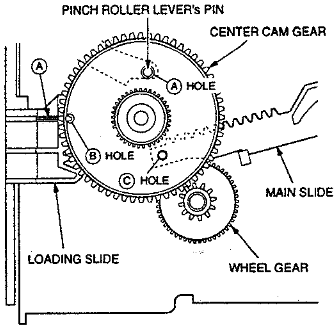

PINCH ROLLER LEVER's PIN
CENTER CAM GEAR
Ⓐ
Ⓐ HOLE
Ⓑ HOLE
Ⓒ HOLE
MAIN SLIDER
LOADING SLIDE
WHEEL GEAR

Fig. 3-11

2) Attach the WHEEL GEAR.
3) Attach the CENTER CAM GEAR so that the pin on the PINCH ROLLER LEVER is visible through the Ⓐ hole on the CENTER CAM GEAR as well as the LOADING SLIDE's Ⓐ part aligns with the Ⓑ hole on the CENTER CAM GEAR as shown in Fig. 3-11.

3-4-4. Installation of the LOADING MOTOR and MODE DETECT SWITCH

1) Carefully insert the LOADING MOTOR (with the MODE DETECT SWITCH attached) to the motor holder on the chassis and turn the LOADING MOTOR in the opposite direction of the arrow, shown in Fig. 3-6).
2) Align the hollow teeth of the CENTER CAM GEAR with the trapezoidally shaped teeth of the MODE DETECT SWITCH as shown in Fig. 3-12 then tighten the retaining screw.

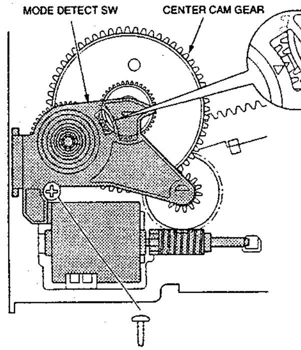

MODE DETECT SW
CENTER CAM GEAR

Fig. 3-12

3-5. REPLACEMENT OF THE CAPSTAN MOTOR BLOCK

1) Remove the three retaining screws on the top. Next, turn the mechanism block upside down then remove the CAPSTAN BELT.
2) Remove the CAPSTAN MOTOR BLOCK from the chassis carefully.

3-6. DRUM MOTOR PCB REPLACEMENT

1) Remove the two retaining screws on the DRUM MOTOR PCB, as shown in Fig. 3-13.

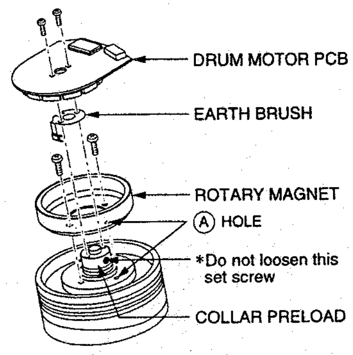


Fig. 3-13

2) If removal of the ROTARY MAGNET is necessary, first remove the EARTH BRUSH then remove the two ROTARY MAGNET retaining screws.
3) When reattaching the ROTARY MAGNET onto the UPPER DRUM of the VIDEO HEAD BLOCK, the Ⓐ hole must align with the Ⓐ hole on the UPPER DRUM.
4) Perform PB switching point adjustment (INFORMATION, PRESETS IN THE TEST MODE step 3)) after replacement of the ROTARY MAGNET or DRUM MOTOR PCB.

3-7. VIDEO HEAD BLOCK REPLACEMENT

3-7-1. VIDEO HEAD BLOCK replacement

※ Can not be replaced Upper Drum itself, replace whole Video Head Block.

1) Remove the DRUM MOTOR PCB, EARTH BRUSH and ROTARY MAGNET (refer to step 3-6).
2) Remove the three retaining screws on the bottom.

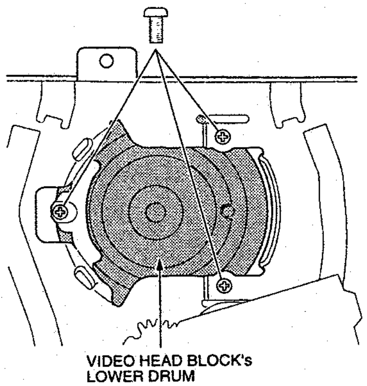


Fig. 3-14

NOTE:

1) Because the video head tips are fragile, take special care when handling the VIDEO HEAD BLOCK.
2) Height precision is required for proper performance. the following points should be noted when replacing the VIDEO HEAD BLOCK.
   a) Do not loosen the set screws on the COLLAR PRELOAD (refer to Fig. 3-13).
   b) Before replacement, use alcohol to clean both surfaces where the LOWER DRUM touches the chassis.
   c) Tighten the three retaining screws alternately and gradually.

3-7-2. After replacement

After replacement, the following adjustments are necessary for proper performance.

1) GUIDE LEADER height adjustment (MECHANICAL ADJUSTMENT 4-2-5).
2) CONTROL HEAD phase adjustment (MECHANICAL ADJUSTMENT 4-3).
3) PB switching point adjustment (INFORMATION, PRESETS IN THE TEST MODE step 3)).

IV. MECHANICAL ADJUSTMENT

4-1. BACK TENSION CONFIRMATION

1) Using a video cassette tape which you no longer need, remove both tape reels and the tape protection cover. Next, cover the video cassette's left and right detection holes with black adhesive tape.
2) Engage the playback mode using the tapeless cassette.
3) Confirm the distance between the three marks (line) on the TENSION ARM and the reference BOSS on the MECHA. CHASSIS so that the center of the reference BOSS aligns with the center line on the TENSION ARM, as shown in Fig. 4-1.
4) If the result is not satisfactory, eject the cassette tape and adjust the back tension with a flat head screwdriver, as shown in Fig. 4-1, until a satisfactory result is achieved.

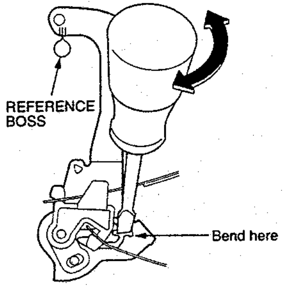


Fig. 4-1

4-2. TAPE TRANSPORT ADJUSTMENTS

NOTE: The following adjustments are required only when an irregularity is found, since these adjustments are precisely set at the factory.

4-2-1. Tape curl adjustment at the TAKE UP TAPE GUIDE

1) Play back a recorded tape which is no longer needed.
2) Turn the Ⓐ screw on the A/C HEAD BLOCK until the edge of the tape barely touches the lower part of the TAKE UP TAPE GUIDE, without any curl or wrinkle. (Turning the Ⓐ screw in the clockwise direction moves the tape downwards and counterclockwise direction moves the tape upwards.

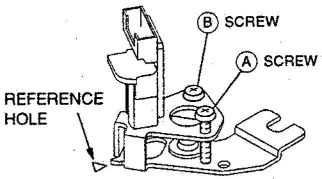


Fig. 4-2

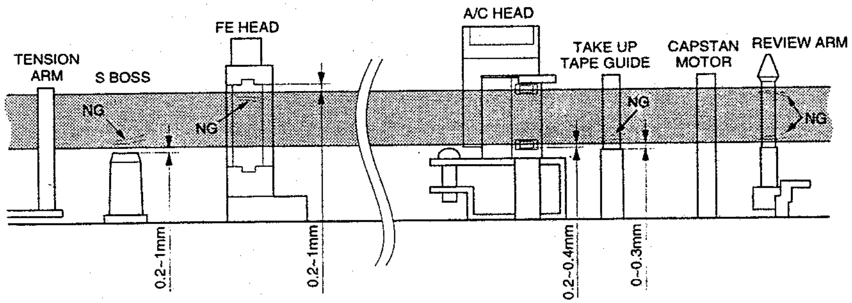


Fig. 4-3

3) Connect an oscilloscope to the AUDIO OUT terminal and play back the test tape TF-526HH (part No.: AT-751788).
4) Confirm that the output level is between 30 ~ 200 mVp-p (optimum value is 100 mVp-p). If the result is not satisfactory, finely adjust the Ⓐ and Ⓑ screws alternately until a satisfactory result is achieved.

IMPORTANT:

1) In order to prevent the A/C HEAD BASE from being distorted, and to keep the A/C HEAD straight up, always turn the head azimuth adjustment Ⓑ screw equally in the opposite direction to the Ⓐ screw.
2) Never turn the Ⓐ screw in the clockwise direction too much as it will cause the A/C HEAD BASE to bend.
3) Once the Ⓐ screw is adjusted, A/C HEAD azimuth adjustment is required for proper performance. (Refer to 4-2-4, A/C HEAD azimuth adjustment)
4) To make the adjustment easier, prepare a cassette tape with the protection cover removed.

4-2-2. Tape curl adjustment at the S-BOSS or FULL TRACK ERASE HEAD

1) Play back the protection cover-less cassette tape which you prepared.
2) Confirm that the edge of the tape is not touching the S-BOSS or upper flange of the FULL TRACK ERASE HEAD, as shown in Fig. 4-3. If the result is not satisfactory, bend the neck part of the TENSION ARM in the Ⓐ or Ⓑ direction slightly until a satisfactory result is achieved.

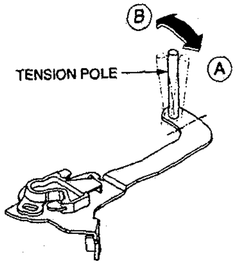


Fig. 4-4

3) Set the VCR to the "CUE" or "REVIEW" mode and confirm that the edge of the tape is not touching the S-BOSS or upper flange of the FULL TRACK ERASE HEAD. If the result is not satisfactory, readjust the TENSION ARM again.

4-2-3. CUE/REVIEW check

1) Play back the end of an E-240 tape and set the unit to the REVIEW mode by pressing the REW button.

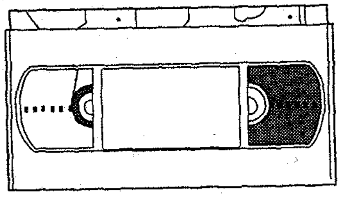


Fig. 4-5

2) After 3 seconds, confirm there is no curl or wrinkle among the TAKE UP TAPE GUIDE, CAPSTAN SHAFT and REVIEW ARM. If the result is not satisfactory, readjust the Ⓐ and Ⓑ screws until a satisfactory result is achieved.
3) Play back the beginning of an E-240 tape and this time set the unit to the CUE mode by pressing the F.FWD button.

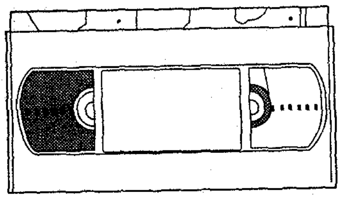
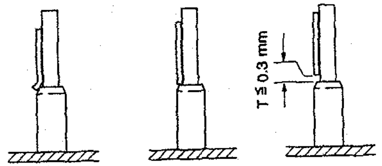


Fig. 4-6

4) Confirm there is no curl or wrinkle among the TAKE UP TAPE GUIDE, CAPSTAN SHAFT and REVIEW ARM. If curl or wrinkle occurs, slightly turn the Ⓐ screw until it disappears.
5) Set the unit to the REVIEW mode again. Then confirm that there is no curl or wrinkle near the TAKE UP TAPE GUIDE. (A small gap may appear after this adjustment, but this is allowable.)



(a) INCORRECT (b) CORRECT (c) CORRECT

Fig. 4-7

NOTE:

1) If the result is not satisfactory, repeat the adjustment until a satisfactory result is obtained.
2) Always play an undamaged tape to obtain satisfactory adjustment.
3) Because an E-240 tape can be damaged easily due to its thinness, pre-adjustment with an E-180 tape is recommendeed.

4-2-4. A/C HEAD azimuth adjustment

1) Connect an AC milli-voltmeter or an oscilloscope to the AUDIO OUT terminal on the rear panel.
2) Play back the reference tape TF-530RFS (Part No.: AT-751775).
3) Press the "AUDIO MONITOR" button on the remote control repeatedly and choose the linear (normal) audio playback.
4) Adjust the Ⓑ screw to obtain the maximum audio output (Refer to Fig. 4-2).

4-2-5. GUIDE LEADER height adjustment

1) Slightly loosen the set screw at the lower part of the GUIDE LEADER's (L) and (R) so that the GUIDE LEADER can be adjusted with reasonable tightness.

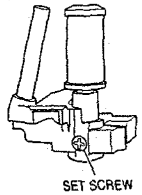


Fig. 4-8

2) Play back the reference tape TF-530RFS.
3) Connect an oscilloscope's CH-1 to the TP70 (V. ENVE) on the MAIN PCB and CH-2 to TP71 (V. SWP) for triggering. (Refer to "video switching point preset" on page 6 for location.)
4) Press the tracking button on the remote control to obtain the maximum RF envelope level.

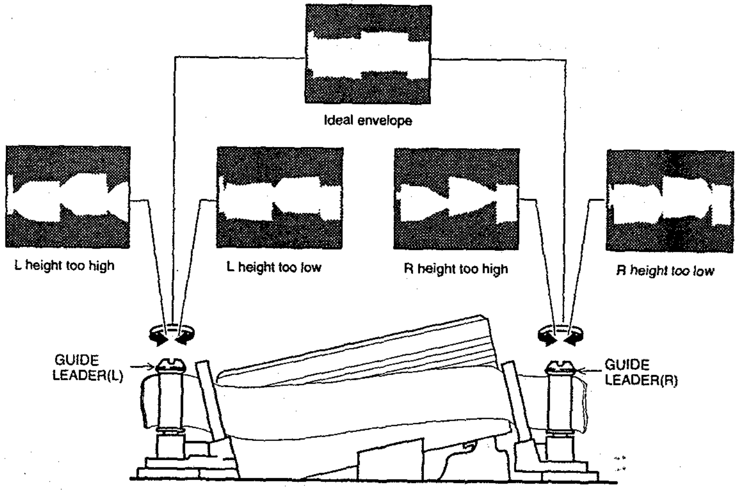


Fig. 4-9

5) Turn both the GUIDE LEADER's heads *alternately with a* flat head (—) screwdriver to obtain a flat RF envelope as the ideal envelope, as shown in Fig. 4-9.
6) After adjustment is completed, tighten the loading leader set screws.

4-3. A/C HEAD PHASE ADJUSTMENT

1) Connect an oscilloscope's CH-1 to the TP70 (V. ENVE) on the MAIN PCB and CH-2 to TP71 (V. SWP) for triggering. (Refer to "video switching point preset" on page 6 for location.)
2) Play back the reference tape TF-530RFS (Part No. : AT-751775).
3) Press the ">" or "<" TRACKING button on the remote control until the "X" mark can be seen in the center position of the tracking range on the TV screen as shown in Fig. 4-10.
4) Loosen the Ⓒ screw slightly so that the A/C HEAD BASE can be moved with reasonable tightness.
5) Insert a philips type screwdriver into the Ⓐ hole on the chassis through the A/C HEAD BASE's wane.
6) Move the A/C HEAD BASE by moving the screwdriver in the direction of the arrow, as shown in Fig. 4-11, to obtain the maximum RF output, then tighten the Ⓒ screw. Although there are a few points at which the RF output becomes maximum, the pointed head of the A/C HEAD BASE must be positioned as close to the reference hole as possible.
7) Eject the tape and then re-insert it and play it back again. Confirm that the RF output is maximum after the auto tracking control has been activated. Next, press the "<" or ">" button on the remote control alternately and confirm that the RF output is maximum at the center tracking position. If the result is not satisfactory, repeat steps 2) to 6). (This adjustment is very important as this affects the interchangeability of recorded tapes.)

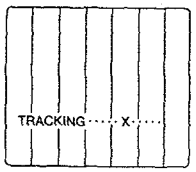


Fig. 4-10

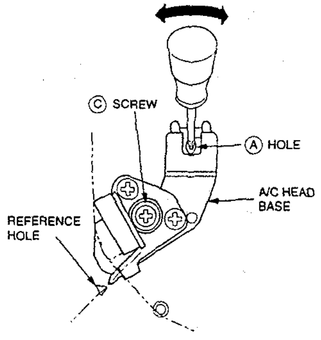


Fig. 4-11

V. PARTS LIST

ATTENTION

1. When placing an order for parts, be sure to list the Part No., Model No. and the description of each part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
2. Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in Parts List or Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

a) Mechanism Block

2. HEAD BASE BLOCK

Ref. No.	Part. No.	Description
1	BH-T2023A320A	HEAD BASE BLOCK
2	HP-H2206A010A	HEAD R/P PR4-8FU C
3	ZS-477876	PAN20↔03STL CMT
4	ZS-536488	BID20↔08STL CMT
5	ZG-402895	SP CS ANGLE ADJUST

SP (Service Parts) Classification

This number corresponds with the individual parts index number in the figure.

b) PC Board

2. MAIN PC BOARD

Ref. No.	Part. No.	Description
IC1	EI-324536	IC HD14049BP
IC2	EI-336801	IC MB8841-564M
C1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]
C1B	EC-350949	C MMY V 223M 250DC [J]
C1C	EC-338397	C MMY V 223M 125AC [C,A]
X1	EI-318384	OSC X'TAL NC-18C

Symbols for primary destination

[A] : AAL (U.S.A) [S] : SAA (Australia)
[B] : BEAB (England) [U] : U/T (Universal Area)
[C] : CSA (Canada)
[E] : CEE (Europe) [V] : VDE (Germany)
[J] : JPN (Japan) [Y] : Custom

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No. listed at right of Part No.

WARNING

⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT

⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LÉ FABRICANT.

1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref. No.	Part No.	Description
1	BL438155C	ARM LOADING(2) BLK
2	BL433609N4	ARM PINCH BLK
3	BM433593N1	LOADING MOTOR PART
4	BM438348C	MOTOR F2QSB
5	BM433198T	MOTOR F20EL60
6	⚠ BT438422C	TRANS POW V1285-EO
7	BV433615N8	HOLDER CASSETTE BLK
8	BVV1234D430D	TL DRUMBLK(SERVICE)NX-6PAL-2
9	ED390011C	D LED GL451 INFRARED
10	ED390012C	D LED GL4800 INFRARED
11	⚠ ED438389C	D SC.ERA82-004 T05 0.6A
12	ED435478C	D SCHOTTKY ERC81-004J10 S12
13	⚠ ED436213C	D SILI.ERA2210AVRB T051000/0.5
14	⚠ ED435728C	D SILI.H ERD32-02J6 S12 200/3A
15	ED416930C	D SILICON C.MA77-TX TXT08E
16	ED307573C	D SILICON H 1SS131T-77 T26
17	⚠ ED428420C	D SILICON RL103F-N02T05 200/1A
18	ED403280C	D SILICON 1N4002N02 T05 100/1A
19	⚠ ED418622C	D SILICON 1N4006N02 T05 800/1A
20	ED427173C	D VARACTOR MA840-B(TA) T26
21	ED434522C	D ZENER H MTZJ10C T26
22	ED439308C	D ZENER H MTZJ15C T26 [EXCEPT EA-D]
23	ED422420C	D ZENER H MTZJ20C T26
24	ED427618C	D ZENER H MTZJ33A T26 [EXCEPT EA-D]
25	ED422519C	D ZENER H MTZJ4.3B T26
26	ED418820C	D ZENER H MTZJ5.1C T26
27	ED418918C	D ZENER H MTZJ8.2B T26
28	ED427719C	D ZENER H MTZJ9.1A T26
29	EE438370C	TV TUNER B8026ER [SEG-N ONLY]
30	EE438419C	TV TUNER TELB7-021A [781EK-N/796EK-N ONLY]
31	EE435227C	TV TUNER TELE1-012A [EA-D ONLY]
32	EE438420C	TV TUNER TELE9-111A [EDG/797EK-N/EO-**/OEM]
33	⚠ EF438424C	FUSE V 491 T05 60V 2.0A
34	⚠ EF394702C	FUSE 218 TIME 250V 2.00A
35	EI389644C	IC BA403 [EA, EO-D/DN, VCR3088CE]
36	EI439673C	IC BA4558F-E2
37	EI438372C	IC BA6956N
38	EI438383C	IC BU4052BCF [EXCEPT EA-D]
39	EI438248C	IC KA78L09AZ T05
40	EI435229C	IC LA70011M-TRM FPR T24E
41	EI438400C	IC LA71507ML
42	EI437232C	IC LA72631M QFTY
43	EI432899C	IC LA7337 [SEG-N ONLY]
44	EI432759C	IC LA7577N
45	EI435272C	IC LC89978M-TE-R FPR T16E
46	EI439445C	IC M37777MAA1F8GP VXHSYFV2 [EK-N ONLY]
47	EI439443C	IC M37777MAA3A0GP VXHSYVS2 [EA-D ONLY]
48	EI439444C1	IC M37777MAA3A5GP VXHSYFS3 [ALL OTHERS]
49	EI439614C	IC M37777MAA3A7GP VXHSYFR1 [EDG ONLY]
50	EI368809C	IC M51496P
51	EI213390C	IC NJM4558D
52	EI435187C	IC S-806H-Z TO-92 T05
53	EI433060C	IC SAA7283GP
54	EI439114C	IC SDA5650XGEG FP T24E [VPS/PDC MODELS ONLY]
55	EI435189C	IC STV6400D-TR FPTRT24E [EXCEPT EA-D]
56	⚠ EI422128C	IC TA76431S T05
57	EI437235C	IC TA8865BN
58	EI438399C	IC TC90A24F-303 FPL T16E [EXCEPT EDG]
59	EI439617C	IC TC90A24F-305 FPL T16E [EDG ONLY]
60	EI438421C	IC TDA9840T/V2 [EA, EO-D/DN, VCR3088CE]
61	EI337530C	IC UPC574J [EA-D ONLY]
62	EI422145C	IC UPD16312GB-3B4
63	EI431275C	IC 24LC04BT/SN FP T12E
64	EI437238C	OSC CE CSB503F30
65	EI368829C	OSC CE CSB512P
66	EI438416C	OSC X'TAL APS-2001 10.008MHZ [EA, EO-D/DN, VCR3088CE]
67	EI425240C	OSC X'TAL APS1011A 16.000MHZ
68	EI433914C	OSC X'TAL APS1026 8.192MHZ
69	EI431006C	OSC X'TAL HC-49U GX 3.579545MH
70	EI430836C	OSC X'TAL HC-49U L20 4.433619M
71	EI438488C	OSC X'TAL VT-200 32.768KHZ
72	EM438397C	IND FL FV758G
73	⚠ ER418648C	R FUSE V T05 RF25SCVTP1/4WR24K
74	⚠ ER400729C	R FUSE V T05 RF25SCVTP1/4WR47K
75	⚠ ER435803C	R FUSE V T05RF25SVTP 1/4W 8R2J
76	ES433183C	SW MICRO MPU10390MLB0
77	ES433595N	SW MODE SELECTOR MMS00340ZMBO
78	ES433200C	SW TACT TSTD-2 T05
79	ET428361C	DETECTOR GP1U281X
80	⚠ ET422113C	PHOTO COUPLER PS2561-1-V
81	ET433976C	TR C.DTA114TKA T146T08E [EXCEPT EA-D/EK-N]
82	ET437201C	TR C.DTA143TKA T146T08E [EXCEPT OEM MODELS]
83	ET429896C	TR C.DTA144EKA T146T08E
84	ET429899C	TR C.DTA144TKA T146T08E [SEG-N ONLY]
85	ET430868C	TR C.DTC114EKA T146T08E
86	ET433072C	TR C.DTC114TKA T146T08E
87	ET428400C	TR C.DTC143EKA T146T08E
88	ET429897C	TR C.DTC144EKA T146T08E
89	ET433071C	TR C.DTC144TKA T146T08E
90	ET438353C	TR C.2SB1198K Q,R T146T08E
91	ET416932C	TR C.2SB709A R,S TXT08E
92	ET432740C	TR C.2SC2480 T,S TXT08E
93	ET438352C	TR C.2SD1782K Q,R T146T08E
94	ET416933C	TR C.2SD601A R,S TXT08E
95	ET364084C	TR DTA143ES T05 [EXCEPT EA-D]
96	ET364291N	TR DTA144ES T05
97	ET362842C	TR DTC143TS T05
98	ET368786C	TR DTC143ZS T05
99	ET361961C	TR DTC144ES T05
100	ET390010C	TR PHOTO PT4800
101	ET390009C	TR PHOTO PT493F
102	ET392746C	TR 2SA933AS R,S T05 [EK-N & OEM MODELS ONLY]
103	ET434246C	TR 2SB1326 Q,R T05
104	ET392663C	TR 2SC1740S R,S T05
105	ET414816C	TR 2SC2668 Y T05 [EA-D ONLY]
106	⚠ ET427539C	TR 2SC4908 LF625
107	ET438425C	TR 2SD1858 P,Q,R T05
108	⚠ ET403869C	TR 2SD2144S U,V T05
109	ET416697C	TR 2SD2396 J,K
110	EV397433C	R S-FIX H T05EVNDXAA03 0.1W152 [EA, EO-D/DN, VCR3088CE]
111	HE433151C	HEAD E VTR-1X2ERS11-108
112	HR435698C3	HEAD ASSY HVUXA1003A
113	HZ417681N	ROLLER HEAD CLEANER(2) (SG) [EXCEPT EK-N]
114	MB433627C	BELT CAPSTAN (CH)
115	MI433579N5	ARM IDLER PART
116	MI433597N9	DISK CLUTCH PART
117	ML433586N1	ARM SLOW BRAKE PART
118	ML433553N1	MAIN BRAKE(L)BLK
119	ML433546N2	MAIN BRAKE(R)BLK

Ref. No.	Part No.	Description
120	ML435645N1	SLIDE MAIN(2)
121	MZ433568N1	GEAR TOGGLE(R)BLK
122	VT433526N	GUIDE ROLLER PART

2. MECHANISM (1) BLOCK

Ref. No.	Part No.	Description
1	BV433522N2	GUIDE LEADER(L)BLK
2	BV433534N3	GUIDE LEADER(R)BLK
3	VT433526N	GUIDE ROLLER PART
4	ZS418616J	PAN20X2.8STL CMT PS1 LEADER
5	BL433609N4	ARM PINCH BLK
6	MT433537N2	DISK REEL
7	BL433538N6	ARM TENSION BLK
8	ML433604N5	ARM REVIEW PART
9	ZG433559N1	SP TORSION PINCH
10	ZG433608N5	SP TORSION REVIEW
11	ML433560N	LEVER DETECTOR
12	ML433553N1	MAIN BRAKE(L)BLK
13	ML433546N2	MAIN BRAKE(R)BLK
14	ZG433557N	P PULL M.B
15	ML433567N1	SLIDE LOADING
16	BV433615N8	HOLDER CASSETTE BLK
17	BL438155C	ARM LOADING(2) BLK
18	BB433174C	MECHA BASE BLK NX

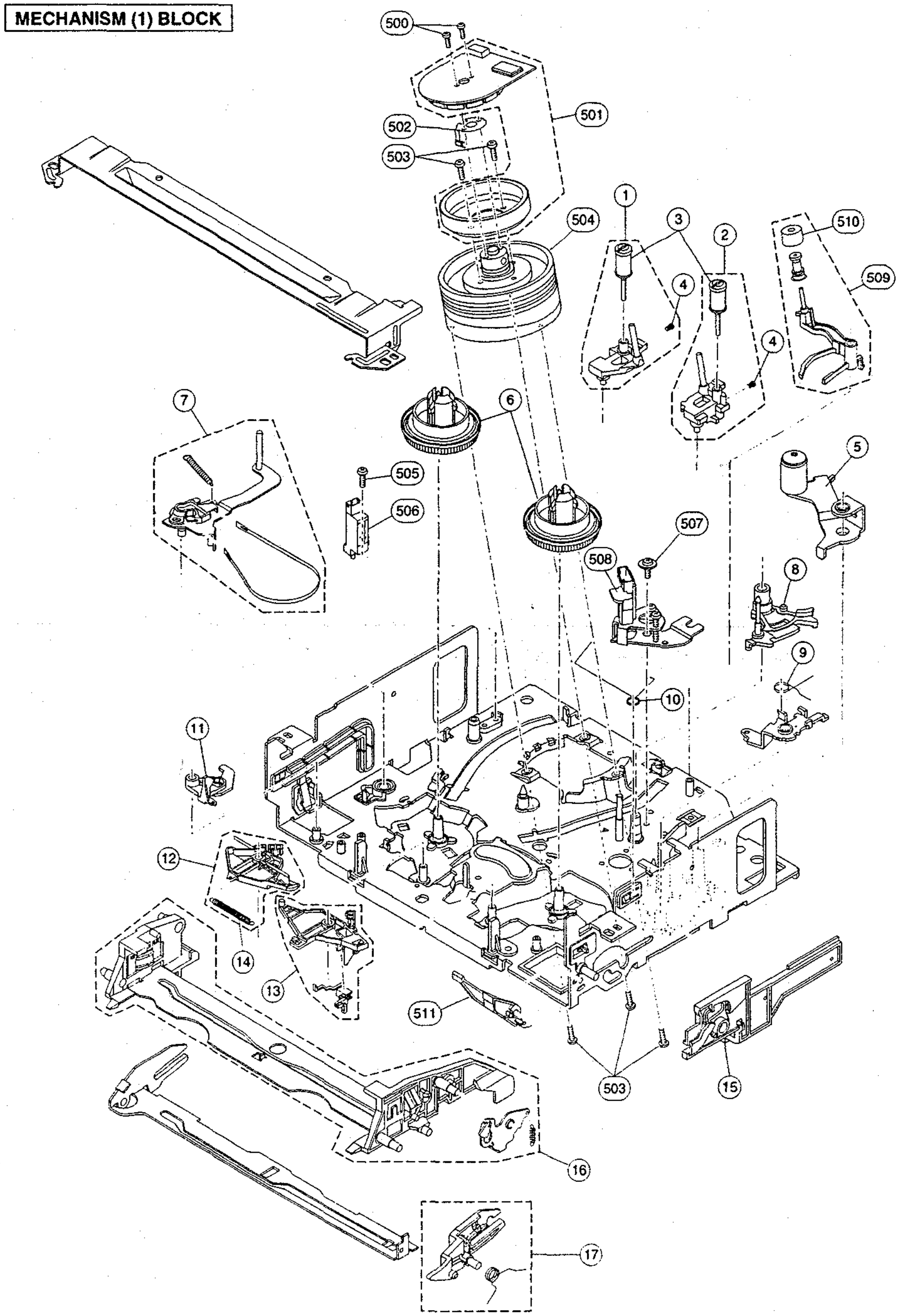
The parts reference numbered 500 to 511 will not be supplied with the "MECHA BASE BLK NX".

500	ZS417161T	PAN23X04STL CMT	(TL)
501	BM433198T	MOTOR F20EL60	
502	MZ433904T	EARTH BRUSH PART	
503	ZS479474C	PAN26X05STL CMT	(CH)
504	BVV1234D430D	TL DRUMBLK(SERVICE)NX-6PAL-2	
505	ZS403887C	PT BID26X12STL CMT	(CH)
506	HE433151C	HEAD E VTR-1X2ERS11-108	
507	ZS344754C	ST PAN30X06STL CMT C080	(CH)
508	HR435698C3	HEAD ASSY HVUXA1003A	
509	BL433689C	HEAD CLEANER BLK [EXCEPT EK-N]	(CH)
510	HZ417681N	ROLLER HEAD CLEANER(2) [EXCEPT EK-N]	(SG)
511	ML433628C	ARM MASK OPENER	(CH)

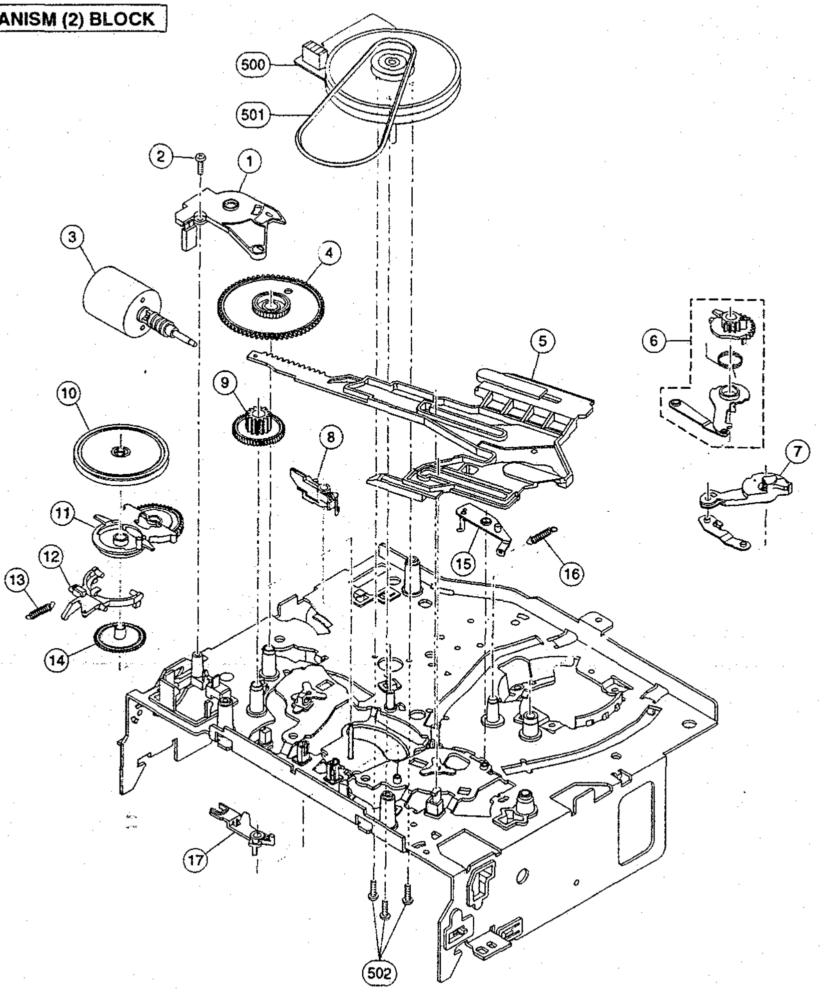
NOTE :

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

MECHANISM (1) BLOCK



MECHANISM (2) BLOCK



3. MECHANISM (2) BLOCK

Ref. No.	Part No.	Description
1	ES433595N	SW MODE SELECTOR MMS00340ZMBO
2	ZS389950N	PT BID26X10STL CMT (SG)
3	BM433593N1	LOADING MOTOR PART
4	MZ433591N	GEAR CAM CENTER
5	ML435645N1	SLIDE MAIN(2)
6	MZ433568N1	GEAR TOGGLE(R)BLK
7	ML433576N	LEVER TOGGLE(L)
8	ML433586N1	ARM SLOW BRAKE PART
9	MZ433589N1	GEAR WHEEL
10	MI433597N9	DISK CLUTCH PART
11	MI433579N5	ARM IDLER PART
12	ML433584N	ARM COUPLING
13	ZG428605N	SP PULL COUPLING
14	MZ433578N	GEAR F/R
500	BM438348C	MOTOR F2QSB
501	MB433627C	BELT CAPSTAN
502	ZS436277C	ST PAN26X06STL NI3 (CH)

NOTE :
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

4. P.C. BOARD

Ref. No.	Part No.	Description
1-A	BAV1285C600C	CH PC MAIN BLK G780EDG
1-B	BAV1285C605A	CH PC MAIN BLK G780EO-N
1-C	BAV1285Q600J	FR PC MAIN BLK G781SEG-N (G780SEG-N/G781SEG-N)
1-D	BAV1285C600E	CH PC MAIN BLK G781EK-N
1-E	BAV1285C605C	CH PC MAIN BLK G781EO-D
1-F	BAV1285C605J	CH PC MAIN BLK G781EO-DN
1-G	BAV1285C600A	CH PC MAIN BLK G785EA-D
1-H	BAV1285C600K	CH PC MAIN BLK G786SEG-N
1-I	BAV1285C605E	CH PC MAIN BLK G791EO-D
1-J	BAV1285C600B	CH PC MAIN BLK G795EA-D
1-K	BAV1285C600D	CH PC MAIN BLK G796EDG
1-L	BAV1285C600F	CH PC MAIN BLK G796EK-N
1-M	BAV1285C605G	CH PC MAIN BLK G796EO-D
1-N	BAV1285C605K	CH PC MAIN BLK G796EO-DN(E) [G796EO-DN EUROPE]
1-O	BAV1285C605B	CH PC MAIN BLK G796EO-DN(S) [G796EO-DN NEW ZEALAND]
1-P	BAV1285C600L	CH PC MAIN BLK G796SEG-N
1-Q	BAV1285C600G	CH PC MAIN BLK G797EK-N(B) [G797EK-N(B) UK]
1-R	BAV1285C600H	CH PC MAIN BLK G797EK-N(Y6) [G797EK-N(S) NZ]
1-S	BAV1285Q605L	FR PC MAIN BLK VCR3088CE [VCR---CE]
1-T	BAV1285Q605M	FR PC MAIN BLK VCR3088NE [VCR---NE]
2-A	BAF5003C010A	CH VX VIF-HIFI BLKHIFI-EA [EA-D ONLY]
2-B	BAF5003C030A	CH VX VIF-EDG BLK NOR-EDG [EDG ONLY]
2-C	BAF5003C010B	CH VX VIF-HIFI BLKHIFI-EK-N [EK-N ONLY]
2-D	BAF5003C010E	CH VX VIF-HIFI BLKHIFI-EOH-N [EXCEPT EA/EDG/EK/SEG]
2-E	BAF5003C020B	CH VX VIF-SEG BLK HIFI-SEG-N [SEG-N ONLY]
3-A	BAV1285C620C	CH PC(#)FRONT BLK G785EA-D
3-B	BAV1285C620D	CH PC(#)FRONT BLK G795EA-D
3-C	BAV1285C620G	CH PC(#)FRONT BLK G780EDG [G780 - G791 EXCEPT EA-D]
3-D	BAV1285C620H	CH PC(#)FRONT BLK G796EDG [G796 & G797 EXCEPT EA-D]
3-E	BAV1287Q620B	FR PC(#)FRONT BLK VCR3088CE [VCR3088CE-NE/VCR1938NE]
3-F	BAV1287Q620D	FR PC(#)FRONT BLK VCR4088NE [VCR4088NE, VCR6858NE]
4-A	BAV1285C630A	CH PC NICAM BLK G781EK-N [EK-N ONLY]
4-B	BAV1285C630B	CH PC NICAM BLK G780EO-N [G780EO-N ONLY]
4-C	BAV1285C630C	CH PC NICAM BLK G781EO-DN [EO-DN & OEM]
4-D	BAV1285C630D	CH PC NICAM BLK G781SEG-N [SEG-N ONLY]

PC (#) FRONT BLK CONSISTS OF FOLLOWING P.C. BOARDS.

- OPERATION P.C. BOARD
- FRONT INPUT P.C. BOARD
- SCART SOCKET P.C. BOARD
- REAR RCA P.C. BOARD
- AUDIO OUT P.C. BOARD

5. MAIN P.C. BOARD BLOCK

Ref. No.	Part No.	Description
C201	⚠ EC422101C	C MMY V CUT MKTR40 104M 275AC
C202	⚠ EC422101C	C MMY V CUT MKTR40 104M 275AC
C203	⚠ EC435729C	C CE V CUT ECKMRSY E222M 400AC [EK-N ONLY]
C204	⚠ EC435729C	C CE V CUT ECKMRSY E222M 400AC
C205	⚠ EC435729C	C CE V CUT ECKMRSY E222M 400AC
C206	⚠ EC435729C	C CE V CUT ECKMRSY E222M 400AC [EK-N ONLY]
C207	⚠ EC435729C	C CE V CUT ECKMRSY E222M 400AC
C208	⚠ EC435729C	C CE V CUT ECKMRSY E222M 400AC
C210	⚠ EC432918C	C EC V CUT YK 330M 400.0DC
C211	⚠ EC435665C	C MMY V T05 B32529 473K 400DC
C212	⚠ EC418759C	C CE V T05 CC45 SL121K 1000DC
C437	EC432909C	C DBL LAYER T05 SCDA5R5473A
D201	⚠ ED418622C	D SILICON 1N4006N02 T05 800/1A
D202	⚠ ED418622C	D SILICON 1N4006N02 T05 800/1A
D203	⚠ ED418622C	D SILICON 1N4006N02 T05 800/1A
D204	⚠ ED418622C	D SILICON 1N4006N02 T05 800/1A
D205	⚠ ED436213C	D SILI.ERA2210AVRB T051000/0.5
D207	ED307573C	D SILICON H 1SS131T-77 T26
D220	⚠ ED438389C	D SC.ERA82-004 T05 0.6A
D221	⚠ ED428420C	D SILICON RL103F-N02T05 200/1A
D223	⚠ ED435728C	D SILI.H ERD32-02J6 S12 200/3A
D224	ED435478C	D SCHOTTKY ERC81-004J10 S12
D225	⚠ ED428420C	D SILICON RL103F-N02T05 200/1A
D226	ED422420C	D ZENER H MTZJ20C T26
D227	ED422420C	D ZENER H MTZJ20C T26
D233	ED307573C	D SILICON H 1SS131T-77 T26
D234	ED418820C	D ZENER H MTZJ5.1C T26
D235	ED434522C	D ZENER H MTZJ10C T26
D236	ED403280C	D SILICON 1N4002N02 T05 100/1A
D237	ED403280C	D SILICON 1N4002N02 T05 100/1A
D238	ED403280C	D SILICON 1N4002N02 T05 100/1A
D239	ED403280C	D SILICON 1N4002N02 T05 100/1A
D245	ED403280C	D SILICON 1N4002N02 T05 100/1A
D301	ED307573C	D SILICON H 1SS131T-77 T26
D402	ED390011C	D LED GL451 INFRARED
D403	ED390012C	D LED GL4800 INFRARED
D404	ED390012C	D LED GL4800 INFRARED
D407	ED418918C	D ZENER H MTZJ8.2B T26
D411	ED307573C	D SILICON H 1SS131T-77 T26
D415	ED403280C	D SILICON 1N4002N02 T05 100/1A
D416	ED403280C	D SILICON 1N4002N02 T05 100/1A
D417	ED403280C	D SILICON 1N4002N02 T05 100/1A
D419	ED307573C	D SILICON H 1SS131T-77 T26
D420	ED422519C	D ZENER H MTZJ4.3B T26
D603	ED307573C	D SILICON H 1SS131T-77 T26 [EA-D ONLY]
D604	ED307573C	D SILICON H 1SS131T-77 T26 [EA-D ONLY]
D605	ED427618C	D ZENER H MTZJ33A T26 [EXCEPT EA-D]
D606	ED307573C	D SILICON H 1SS131T-77 T26 [EA-D ONLY]
D607	ED307573C	D SILICON H 1SS131T-77 T26 [EA-D ONLY]
D614	ED439308C	D ZENER H MTZJ15C T26 [EXCEPT EA-D]
D801	ED307573C	D SILICON H 1SS131T-77 T26 [EXCEPT EA-D]
FL181	EO438432C	COIL OSC1 6183A 70.0KHZ
FL701	EH394947C	FILTER CE SFT5.74MA [EA, EO-D/DN, VCR3088CE]
FR201	⚠ ER435803C	R FUSE V T05RF25SVTP 1/4W 8R2J
FR202	⚠ ER435803C	R FUSE V T05RF25SVTP 1/4W 8R2J
FR401	⚠ ER418648C	R FUSE V T05 RF25SCVTP1/4WR24K
FR402	⚠ ER400729C	R FUSE V T05 RF25SCVTP1/4WR47K
FR403	⚠ ER418648C	R FUSE V T05 RF25SCVTP1/4WR24K
F201	⚠ EF394702C	FUSE 218 TIME 250V 2.00A
F202	⚠ EF438424C	FUSE V 491 T05 60V 2.0A
IC1	EI438400C	IC LA71507ML
IC2	EI435272C	IC LC89978M-TE-R FPR T16E
IC3	EI435229C	IC LA70011M-TRM FPR T24E
IC4-A	EI438399C	IC TC90A24F-303 FPL T16E [EXCEPT EDG]

Ref. No.	Part No.	Description
IC4-B	EI439617C	IC TC90A24F-305 FPL T16E [EDG ONLY]
IC5	EI439114C	IC SDA5650XGEG FP T24E [VPS/PDC MODELS ONLY]
IC201	⚠ EI422128C	IC TA76431S T05
IC202	EI438248C	IC KA78L09AZ T05
IC301	EI437232C	IC LA72631M QFTY
IC401-A	EI439443C	IC M37777MAA3A0GP VXHSYVS2 [EA-D ONLY]
IC401-B	EI439445C	IC M37777MAA1F8GP VXHSYFV2 [EK-N ONLY]
IC401-C	EI439614C	IC M37777MAA3A7GP VXHSYFR1 [EDG ONLY]
IC401-D	EI439444C1	IC M37777MAA3A5GP VXHSYFS3 [ALL OTHERS]
IC402	EI439673C	IC BA4558F
IC403	EI438372C	IC BA6956N
IC404	EI431275C	IC 24LC04BT/SN FP T12E
IC407	EI435187C	IC S-806H-Z TO-92 T05
IC601	EI337530C	IC UPC574J [EA-D ONLY]
IC701	EI389644C	IC BA403 [EA, EO-D/DN, VCR3088CE]
IC702	EI438421C	IC TDA9840T/V2 [EA, EO-D/DN, VCR3088CE]
IC801	EI435189C	IC STV6400D-TR FPTRT24E [EXCEPT EA-D]
IC852	EI438383C	IC BU4052BCF [EXCEPT EA-D]
IC901	EI432899C	IC LA7337 [SEG-N ONLY]
L1	EO414620C	COIL FIX 1 LAP02TA T26 560J
L2	EO418521C	COIL FIX 1 LAP02TA T26 121J
L4	EO389412C	COIL FIX 1 LAV35VB007 T05 101J
L5	EO389412C	COIL FIX 1 LAV35VB007 T05 101J
L51	EO422477C	COIL FIX 1 LF-5.0S T26 470J
L71	EO414622C	COIL FIX 1 EL0607RA T05 101K
L72	EO422483C	COIL FIX 1 LF-5.0S T26 181J
L73	EO357630C	COIL FIX 1 LAP02TA T26 101K
L101	EO414620C	COIL FIX 1 LAP02TA T26 560J [EXCEPT EA-D/EK-N]
L102	EO422477C	COIL FIX 1 LF-5.0S T26 470J
L103	EO422477C	COIL FIX 1 LF-5.0S T26 470J
L151	EO414614C	COIL FIX 1 LAP02TA T26 151J
L152	EO357539C	COIL FIX 1 EL0606RA T05 222K
L181	EO414622C	COIL FIX 1 EL0607RA T05 101K
L182	EO345888	COIL FIX 1 EL0606SKI 271J
L201	⚠ EO438251C	COIL LF UF1922S4-152Y1R5-01 [EXCEPT EA-D/EDG]
L202	⚠ EO438249C	COIL LF HF2022R-333Y0R3-01
L203	EO438250C	COIL FIX 2 B-97032 330K
L204	EO438250C	COIL FIX 2 B-97032 330K
L301	EO389412C	COIL FIX 1 LAV35VB007 T05 101J
L302	EO389412C	COIL FIX 1 LAV35VB007 T05 101J
L303	EO357630C	COIL FIX 1 LAP02TA T26 101K
L401	EO353587	OIL FIX 1 LAP02 F05 220K
L402	EO353587	COIL FIX 1 LAP02 F05 220K
L601	EO422488C	COIL FIX 1 LF-5.0S T26 100J
L602	EO422488C	COIL FIX 1 LF-5.0S T26 100J [EA-D/EO-✱✱ ONLY]
L603	EO422488C	COIL FIX 1 LF-5.0S T26 100J [SEG-N ONLY]
L604	EO389412C	COIL FIX 1 LAV35VB007 T05 101J [EXCEPT EA-D]
L605	EO422488C	COIL FIX 1 LF-5.0S T26 100J [EA-D ONLY]
L607	EO389412C	COIL FIX 1 LAV35VB007 T05 101J [EXCEPT SEG-N]
L701	EO382619J	COIL FIX 1 EL0607SKI F05 472J [EA-D, EO-✱✱, VCR3088CE]
L702	EO422488C	COIL FIX 1 LF-5.0S T26 100J [EA-D, EO-✱✱, VCR3088CE]
L801	EO389412C	COIL FIX 1 LAV35VB007 T05 101J
L851	EO389412C	COIL FIX 1 LAV35VB007 T05 101J [EXCEPT EA-D]
L901	EO414616C	COIL FIX 1 LAP02TA T26 270J [SEG-N ONLY]
L902	EO422479C	COIL FIX 1 LF-5.0S T26 330J [SEG-N ONLY]
L903	EO414620C	COIL FIX 1 LAP02TA T26 560J [SEG-N ONLY]
L904	EO422488C	COIL FIX 1 LF-5.0S T26 100J [SEG-N ONLY]
L905	EO422481N	COIL FIX 1 LF-5.0S T26 220J [SEG-N ONLY]
L906	EO422474C	COIL FIX 1 LF-5.0S T26 6R8J [SEG-N ONLY]
L907	EO389412C	COIL FIX 1 LAV35VB007 T05 101J [SEG-N ONLY]
MD601-A	BV429839C1	RF CONVERTER YAA21-1045H G EO [EO-✱✱ ONLY]
MD601-B	BV438417C	RF CONVER.YAA21-1146G 37EA [EA-D ONLY]
MD601-C	BV435423C	RF CONVERTER MDLP3E008C G/I/K [EK-N, OEM ONLY]
MD601-D	BV434180C	RF CONVERT.YAA21-1108G G/K EDG [EDG ONLY]
MD601-E	BV438371C	RF CONVERTER MDLK6Z333A SECAM [SEG-N ONLY]
PH201	⚠ ET422113C	PHOTO COUPLER PS2561-1-V
PJ802	EJ429978C	SOCKET 035 0 9846 05 21P [EXCEPT EA-D]
P2	EJ434181C	SOCKET 10FE-BT-VK-N 10P
P201	⚠ EJ416590C	SOCKET INLET CCT-2302-0371 2P
P301	EJ433222C	SOCKET 05FE-BT-VK-N 5P [FRONT INPUT MODELS ONLY]
P401	EJ438376C	PLUG TMC-J08P-A1 8P
P402	EJ433184C	SOCKET TAS-X06X-G1 6P
P403	EJ434181C	SOCKET 10FE-BT-VK-N 10P
P405	EJ433220C	SOCKET 07FE-BT-VK-N 7P
P801	EJ437241C	SOCKET 13FE-BT-VK-N 13P [EXCEPT EA-D]
P803	EJ437243C	PLUG 53290-0910 9P [EA-D ONLY]
R201	⚠ ER422189C	R CT P BGR3N 3W 4R7K [EXCEPT EA-D/EDG]
R206	ER422181C	R OMF H S20 FS ERG3SH 3W 823J
R208	ER422512C	R OMF H S15 FS ERG2SH 2W 151J
R210	ER428386C	R OMF V T05 FS ERX1SE 1W R56J
SW401	ES433183C	SW MICRO MPU10390MLB0
TR1	ET416933C	TR C.2SD601A R,S TXT08E
TR2	ET416933C	TR C.2SD601A R,S TXT08E
TR5	ET416932C	TR C.2SB709A R,S TXT08E
TR6	ET429897C	TR C.DTC144EKA T146T08E
TR7	ET416932C	TR C.2SB709A R,S TXT08E
TR8	ET416932C	TR C.2SB709A R,S TXT08E
TR9	ET416932C	TR C.2SB709A R,S TXT08E [795EA/EDG/797EK(Y6)ONLY]
TR10	ET416933C	TR C.2SD601A R,S TXT08E [795EA/EDG/797EK(Y6)ONLY]
TR28	ET361961C	TR DTC144ES T05
TR29	ET361961C	TR DTC144ES T05
TR72	ET416933C	TR C.2SD601A R,S TXT08E
TR73	ET416933C	TR C.2SD601A R,S TXT08E
TR74	ET429897C	TR C.DTC144EKA T146T08E
TR75	ET429897C	TR C.DTC144EKA T146T08E
TR76	ET429897C	TR C.DTC144EKA T146T08E
TR77	ET429896C	TR C.DTA144EKA T146T08E
TR101	ET416932C	TR C.2SB709A R,S TXT08E
TR102	ET433976C	TR C.DTA114TKA T146T08E [EXCEPT EA-D/EK-N]
TR103	ET416933C	TR C.2SD601A R,S TXT08E
TR151	ET392663C	TR 2SC1740S R,S T05
TR152	ET438425C	TR 2SD1858 P,Q,R T05
TR170	ET416933C	TR C.2SD601A R,S TXT08E [EXCEPT OEM MODELS]
TR171	ET429897C	TR C.DTC144EKA T146T08E [EXCEPT OEM MODELS]
TR172	ET437201C	TR C.DTA143TKA T146T08E [EXCEPT OEM MODELS]
TR181	ET438425C	TR 2SD1858 P,Q,R T05
TR182	ET438353C	TR C.2SB1198K Q,R T146T08E
TR183	ET438352C	TR C.2SD1782K Q,R T146T08E
TR184	ET438352C	TR C.2SD1782K Q,R T146T08E
TR201	⚠ ET427539C	TR 2SC4908 LF625
TR202	⚠ ET403869C	TR 2SD2144S U,V T05
TR205	ET392663C	TR 2SC1740S R,S T05
TR206	ET434246C	TR 2SB1326 Q,R T05
TR207	ET368786C	TR DTC143ZS T05
TR209	ET392663C	TR 2SC1740S R,S T05
TR210	ET416697C	TR 2SD2396 J,K
TR211	ET392663C	TR 2SC1740S R,S T05
TR212	ET392663C	TR 2SC1740S R,S T05
TR213	ET368786C	TR DTC143ZS T05
TR301	ET429897C	TR C.DTC144EKA T146T08E
TR302	ET429896C	TR C.DTA144EKA T146T08E
TR303	ET433072C	TR C.DTC114TKA T146T08E
TR304	ET433072C	TR C.DTC114TKA T146T08E
TR401	ET390009C	TR PHOTO PT493F
TR402	ET390009C	TR PHOTO PT493F
TR403	ET390010C	TR PHOTO PT4800
TR404	ET390010C	TR PHOTO PT4800
TR405	ET430868C	TR C.DTC114EKA T146T08E
TR406	ET416932C	TR C.2SB709A R,S TXT08E
TR408	ET428400C	TR C.DTC143EKA T146T08E
TR410	ET437201C	TR C.DTA143TKA T146T08E
TR411	ET416932C	TR C.2SB709A R,S TXT08E
TR412	ET433071C	TR C.DTC144TKA T146T08E
TR601	ET433071C	TR C.DTC144TKA T146T08E [EK-N & OEM MODELS ONLY]
TR602	ET392746C	TR 2SA933AS R,S T05 [EK-N & OEM MODELS ONLY]
TR603	ET416932C	TR C.2SB709A R,S TXT08E [EA-D ONLY]
TR604	ET416932C	TR C.2SB709A R,S TXT08E [EA-D ONLY]
TR605	ET416932C	TR C.2SB709A R,S TXT08E [EA-D ONLY]
TR606	ET429897C	TR C.DTC144EKA T146T08E [EA-D ONLY]
TR607	ET429897C	TR C.DTC144EKA T146T08E [EA-D ONLY]
TR608	ET414816C	TR 2SC2668 Y T05 [EA-D ONLY]
TR610	ET416932C	TR C.2SB709A R,S TXT08E [EA-D ONLY]
TR611	ET416932C	TR C.2SB709A R,S TXT08E
TR614	ET416932C	TR C.2SB709A R,S TXT08E [EA-D ONLY]
TR615	ET416933C	TR C.2SD601A R,S TXT08E
TR616	ET416932C	TR C.2SB709A R,S TXT08E
TR617	ET429897C	TR C.DTC144EKA T146T08E [EA-D ONLY]
TR701	ET392663C	TR 2SC1740S R,S T05 [EA, EO-D/DN, VCR3088CE]
TR801	ET416932C	TR C.2SB709A R,S TXT08E [EA-D ONLY]
TR802	ET416932C	TR C.2SB709A R,S TXT08E [EXCEPT EA-D]
TR803	ET429896C	TR C.DTA144EKA T146T08E [EXCEPT EA-D]
TR804	ET433072C	TR C.DTC114TKA T146T08E [(EXCEPT EA-D]
TR805	ET416933C	TR C.2SD601A R,S TXT08E [EXCEPT EA-D]
TR806	ET364084C	TR DTA143ES T05 [EXCEPT EA-D]
TR807	ET429897C	TR C.DTC144EKA T146T08E [EXCEPT EA-D]
TR851	ET429897C	TR C.DTC144EKA T146T08E [EXCEPT EA-D]
TR852	ET429897C	TR C.DTC144EKA T146T08E [EXCEPT EA-D]
TR853	ET416933C	TR C.2SD601A R,S TXT08E [EXCEPT EA-D]
TR854	ET416933C	TR C.2SD601A R,S TXT08E [EXCEPT EA-D]
TR855	ET433072C	TR C.DTC114TKA T146T08E
TR870	ET416933C	TR C.2SD601A R,S TXT08E
TR871	ET416933C	TR C.2SD601A R,S TXT08E
TR872	ET416933C	TR C.2SD601A R,S TXT08E
TR873	ET364291N	TR DTA144ES T05
TR901	ET416932C	TR C.2SB709A R,S TXT08E [SEG-N ONLY]
TR902	ET433071C	TR C.DTC144TKA T146T08E [SEG-N ONLY]
TR903	ET416933C	TR C.2SD601A R,S TXT08E [SEG-N ONLY]
TR904	ET364291N	TR DTA144ES T05 [SEG-N ONLY]
TR905	ET416933C	TR C.2SD601A R,S TXT08E [SEG-N ONLY]
TR906	ET429899C	TR C.DTA144TKA T146T08E [SEG-N ONLY]
TR907	ET429897C	TR C.DTC144EKA T146T08E [SEG-N ONLY]
TU601-A	EE438420C	TV TUNER TELE9-111A [EDG/797EK-N/EO-✱✱/OEM]
TU601-B	EE435227C	TV TUNER TELE1-012A [EA-D ONLY]
TU601-C	EE438419C	TV TUNER TELB7-021A [781EK-N/796EK-N ONLY]
TU601-D	EE438370C	TV TUNER B8026ER [SEG-N ONLY]
T201	⚠ BT438422C	TRANS POW V1285-EO
VL701	EO435766C	COIL TUN1 JPSH372 S-FM DET5.74 [EA, EO-D/DN, VCR3088CE]
VR701	EV397433C	R S-FIX H T05EVNDXAA03 0.1W152 [EA, EO-D/DN, VCR3088CE]
X1	EI431006C	OSC X'TAL HC-49U GX 3.579545MH
X2	EI430836C	OSC X'TAL HC-49U L20 4.433619M
X401	EI425240C	OSC X'TAL APS1011A 16.000MHZ
X402	EI438488C	OSC X'TAL VT-200 32.768KHZ
X701	EI438416C	OSC X'TAL APS-2001 10.008MHZ [EA, EO-D/DN, VCR3088CE]
400	SZ433649C	HOLDER S/E SENSOR (CH)
500	SZ428508C	HOLDER PHOTO SENSOR (CH)
600	SZ433648C	HOLDER D-LED (CH)

6. VIF-HIFI P.C. BOARD (EXCEPT EDG/SEG)

Ref. No.	Part No.	Description
FL1-A	EH432626C	FILTER CE SAF33.4MC70Z [EA-D ONLY]
FL1-B	EH428166C	FILTER CE SAF33.0MCD70Z [EK-N ONLY]
FL1-C	EH432625C	FILTER CE SAF33.0MC70Z [EO-** & OEM ONLY]
FL2-A	EH432629C	FILTER CE SAF38.9MZW70Z [EA-D ONLY]
FL2-B	EH437233C	FILTER CE TSF5330U [EK-N, EO-** & OEM ONLY]
FL3-A	EH432948C	FILTER CE TPS5.5MWA-TF21 T05 [EA-D, EO-** & OEM ONLY]
FL3-B	EH405642C	FILTER CE TPS6.0MB-TF21 T05 [EK-N ONLY]
FL4-A	EH394948C	FILTER CE SFT5.5MA [EA-D, EO-** & OEM ONLY]
FL4-B	EH416920C	FILTER CE SFT6.0MA [EK-N ONLY]
IC1	EI432759C	IC LA7577N
L4-A	EO428463C	COIL FIX 1 EL0405RA T05 2R7J [EA-D ONLY]
L4-B	EO428123C	COIL FIX 1 EL0405RA T05 5R6J [EO-** & OEM ONLY]
L4-C	EO428259C	COIL FIX 1 EL0405RA T05 R68K [EK-N ONLY]
L5	EO432681C	COIL FIX 1 EL0405RA T05 2R2J
L9-A	EO403937C	COIL FIX 1 EL0405RA T05 4R7J [EA-D ONLY]
L9-B	EO416716C	COIL FIX 1 EL0405RA T05 8R2J [EK-N ONLY]
L9-C	EO419251C	COIL FIX 1 EL0405RA T05 150J [EO-** & OEM ONLY]
L10	EO408956C	COIL FIX 1 EL0405RA T05 390J
TR3	ET432740C	TR C.2SC2480 T,S TXT08E
TR6	ET416933C	TR C.2SD601A R,S TXT08E
TR7	ET416933C	TR C.2SD601A R,S TXT08E
VL1	EO435235C	COIL TUN1 JPS-105 TRAP31.9M HF [EO-** & OEM ONLY]
VL2	EO435236C	COIL TUN1 JPS-106 TRAP41.4M HF [EO-** & OEM ONLY]
VL6-A	EO435239C	COIL TUN1 JPS-062 SIF B/G HF [EA-D, EO-** & OEM ONLY]
VL6-B	EO435237C	COIL TUN1 JPS-061 SIF I HF [EK-N ONLY]
VL7	EO435241C	COIL TUN1 JPS-241 AFT 38.9M HF
VL8	EO435242C	COIL TUN1 JPS-107 VCO 38.9M HF
VR1	EV432754C	R S-FIX H T05 RH0684C 0.3W 223

7. VIF-EDG P.C. BOARD (EDG ONLY)

Ref. No.	Part No.	Description
FL1	EH435679C	FILTER CE K2960M D/K 38.9M
FL2	EH414623C	FILTER CE TPS6.5MB-TF21 T05
FL3	EH432948C	FILTER CE TPS5.5MWA-TF21 T05
FL51	EH433123C	FILTER CE SFSH6.5MCB-TF21 T05
FL52	EH433121C	FILTER CE SFSH5.5MCB-TF21 T05
FL53	EH433122C	FILTER CE SFSH6.0MCB-TF21 T05
IC1	EI368809C	IC M51496P
L1	EO428123C	COIL FIX 1 EL0405RA T05 5R6J
L5	EO422474C	COIL FIX 1 LF-5.0S T26 6R8J
L6	EO408956C	COIL FIX 1 EL0405RA T05 390J
L51	EO416716C	COIL FIX 1 EL0405RA T05 8R2J
L52	EO408834C	COIL FIX 1 EL0405RA T05 221J
TR1	ET432740C	TR C.2SC2480 T,S TXT08E
TR2	ET416932C	TR C.2SB709A R,S TXT08E
TR3	ET416933C	TR C.2SD601A R,S TXT08E
TR4	ET416932C	TR C.2SB709A R,S TXT08E
TR51	ET416933C	TR C.2SD601A R,S TXT08E
TR52	ET416933C	TR C.2SD601A R,S TXT08E
VL2	EO435421C	COIL TUN1 JPS-1331AFM6.0M NOR.
VL3	EO435416C	COIL TUN1 JPS-002AFT38.9M NOR.
VL4	EO435417C	COIL TUN1 JPS-1322A LLD 38.9M
VR1	EV432752C	R S-FIX V T05 RH063LC 0.1W 223
X1	EI368829C	OSC CE CSB512P

8. VIF-SEG P.C. BOARD (SEG-N ONLY)

Ref. No.	Part No.	Description
D20	ED416930C	D SILICON C.MA77-TX TXT08E
D21	ED416930C	D SILICON C.MA77-TX TXT08E
D60	ED416930C	D SILICON C.MA77-TX TXT08E
D62	ED416930C	D SILICON C.MA77-TX TXT08E
FL1	EH437233C	FILTER CE TSF5330U
FL20	EH438408C	FILTER CE TSB6308U
FL50	EH433121C	FILTER CE SFSH5.5MCB-TF21 T05
FL90	EH414623C	FILTER CE TPS6.5MB-TF21 T05
FL91	EH432948C	FILTER CE TPS5.5MWA-TF21 T05
IC1	EI437235C	IC TA8865BN
L1	EO428463C	COIL FIX 1 EL0405RA T05 2R7J
L2	EO408838C	COIL FIX 1 EL0405RA T05 680J
L20	EO427255C	COIL FIX 1 EL0405RA T05 1R0J
L21	EO408838C	COIL FIX 1 EL0405RA T05 680J
L40	EO403273C	COIL FIX 1 EL0405RA T05 330J
L60	EO408838C	COIL FIX 1 EL0405RA T05 680J
L80	EO408838C	COIL FIX 1 EL0405RA T05 680J
L90	EO408957C	COIL FIX 1 EL0405RA T05 180J
L91	EO432683C	COIL FIX 1 EL0405RA T05 3R3J
L92	EO432682C	COIL FIX 1 EL0405RA T05 220J
TR1	ET428400C	TR C.DTC143EKA T146T08E
TR2	ET432740C	TR C.2SC2480 T,S TXT08E
TR20	ET432740C	TR C.2SC2480 T,S TXT08E
TR21	ET416933C	TR C.2SD601A R,S TXT08E
TR22	ET416933C	TR C.2SD601A R,S TXT08E
TR40	ET416932C	TR C.2SB709A R,S TXT08E
TR41	ET429897C	TR C.DTC144EKA T146T08E
TR50	ET416933C	TR C.2SD601A R,S TXT08E
TR51	ET429897C	TR C.DTC144EKA T146T08E
TR60	ET430868C	TR C.DTC114EKA T146T08E
TR61	ET430868C	TR C.DTC114EKA T146T08E
TR80	ET416933C	TR C.2SD601A R,S TXT08E
TR81	ET429897C	TR C.DTC144EKA T146T08E
TR82	ET437201C	TR C.DTA143TKA T146T08E
TR90	ET416933C	TR C.2SD601A R,S TXT08E
TR91	ET416932C	TR C.2SB709A R,S TXT08E
TR92	ET433072C	TR C.DTC114TKA T146T08E
TR100	ET430868C	TR C.DTC114EKA T146T08E
TR101	ET429896C	TR C.DTA144EKA T146T08E
TR102	ET430868C	TR C.DTC114EKA T146T08E
TR103	ET429896C	TR C.DTA144EKA T146T08E
VC60	EC412095C	C S-FIX H T05 TZ03Z100TR169
VC61	EC412095C	C S-FIX H T05 TZ03Z100TR169
VL1	EO435245C	COIL TUN1 JPS-515TRAP40.4M SEG
VL40	EO437236C	COIL TUN1 JPS-608 FM,DET SEG
VL60	EO437237C	COIL TUN1 JPS-229 SIF,VCO SEG
VL61	EO437239C	COIL TUN1 JPS-228 PIF,VCO SEG
VR50	EV437240C	R S-FIX V T05 RH063LC 0.1W 103
X80	EI437238C	OSC CE CSB503F30

9. OPERATION P.C. BOARD

Ref. No.	Part No.	Description
D101	ED307573C	D SILICON H 1SS131T-77 T26
D102	ED307573C	D SILICON H 1SS131T-77 T26
D103	ED307573C	D SILICON H 1SS131T-77 T26
D106	ED427719C	D ZENER H MTZJ9.1A T26
FL101	EM438397C	IND FL FV758G
IC101	EI422145C	IC UPD16312GB-3B4
L101	EO357630C	COIL FIX 1 LAP02TA T26 101K
PH101	ET428361C	DETECTOR GP1U281X
P101	EJ434183C	SOCKET 10FE-ST-VK-N 10P
SW101	ES433200C	SW TACT TSTD-2 T05
SW102	ES433200C	SW TACT TSTD-2 T05
SW103	ES433200C	SW TACT TSTD-2 T05
SW104	ES433200C	SW TACT TSTD-2 T05
SW105	ES433200C	SW TACT TSTD-2 T05
SW107	ES433200C	SW TACT TSTD-2 T05
SW108	ES433200C	SW TACT TSTD-2 T05
SW109	ES433200C	SW TACT TSTD-2 T05
SW110	ES433200C	SW TACT TSTD-2 T05

10. FRONT INPUT P.C. BOARD (FRONT INPUT MODELS ONLY)

Ref. No.	Part No.	Description
D31	ED307573C	D SILICON H 1SS131T-77 T26
D32	ED307573C	D SILICON H 1SS131T-77 T26
L31	EO389412C	COIL FIX 1 LAV35VB007 T05 101J
PJ1	EJ436219C	PIN J YKB11-3003 YELLOW 1P
PJ2	EJ437182C	PIN J YKB11-3002 WHITE 1P
PJ3	EJ437181C	PIN J YKB11-3001 RED 1P
P4	EJ433223C	SOCKET 05FE-ST-VK-N 5P
TR1	ET392663C	TR 2SC1740S R,S T05
TR3	ET362842C	TR DTC143TS T05
TR11	ET362842C	TR DTC143TS T05

11. SCART SOCKET P.C. BOARD (EXCEPT EA-D)

Ref. No.	Part No.	Description
PJ301	EJ435428C	SOCKET 0350536100 BLACK 21P
P301	EJ438354C	SOCKET 00 6216 013 110A 13P

12. REAR RCA P.C. BOARD (EA-D ONLY)

Ref. No.	Part No.	Description
PJ201	EJ437183C	PIN J YKC21-5641 6P
P201	EJ437230C	SOCKET 52418-0910 9P

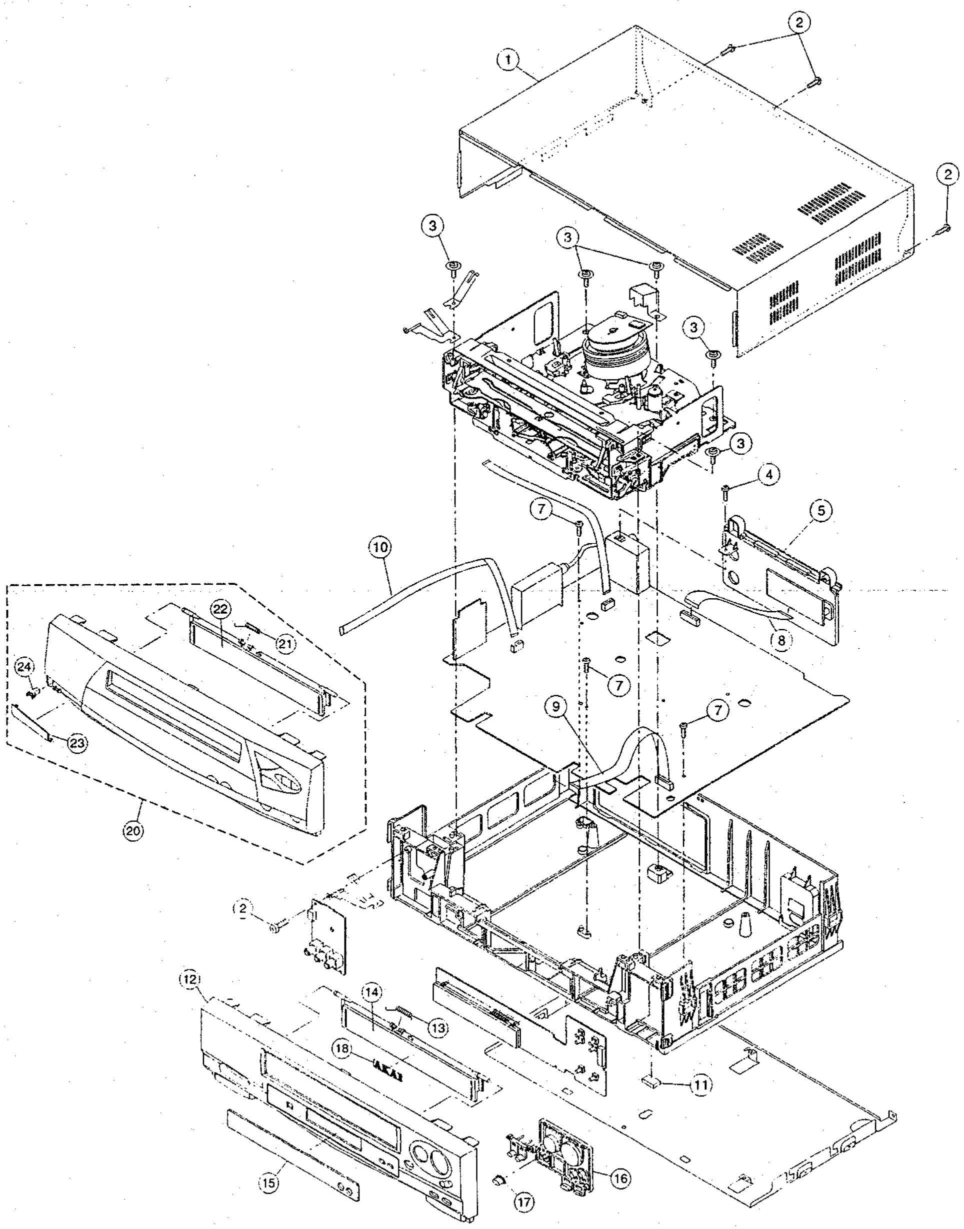
13. AUDIO OUT P.C. BOARD (EXCEPT EA-D)

Ref. No.	Part No.	Description
PJ401	EJ437229C	PIN J T5899-AACD 2P

14. NICAM P.C. BOARD (NICAM MODEL ONLY)

Ref. No.	Part No.	Description
D1	ED427173C	D VARACTOR MA840-B(TA) T26
D2	ED307573C	D SILICON H 1SS131T-77 T26
IC1	EI433060C	IC SAA7283GP
IC2	EI213390C	IC NJM4558D
L1	EO389412C	COIL FIX 1 LAV35VB007 T05 101J
L2	EO389412C	COIL FIX 1 LAV35VB007 T05 101J
L3	EO435254C	COIL FIX 1 EL0606RA T05 6R8J
L5	EO389412C	COIL FIX 1 LAV35VB007 T05 101J
TR1	ET392663C	TR 2SC1740S R,S T05
TR2	ET392663C	TR 2SC1740S R,S T05
X1	EI433914C	OSC X'TAL APS1026 8.192MHZ

FINAL ASSEMBLY BLOCK



15. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
1-A	SP436152C	COVER UPPER EX(HL)F PLATE S(CH) [EXCPT 781/796EK(Y5) OEM]
1-B	SP435920C	COVER UPPER EX(HL)FLAT PLATE(CH) [781EK/796EK(Y5), OEM ONLY]
2	ZS393515C	BT BID30X10STL BZN (CH)
3	ZS426416C	BT PAN30X10STL CMT C080 (CH)
4	ZS323728C	BID30X05STL CMT (CH)
5-A	SP437781C	PANEL REAR JACK EA-HF (CH) [EA-D ONLY]
5-B	SP437783C	PANEL REAR JACK EO-HF (CH) [EXCEPT EA-D/SEG-N]
5-C	SP437784C	PANEL REAR JACK SEG-HF (CH) [SEG-N ONLY]
6	EW438403C	CORD VX FFC MA-DM L140 7P
7	ZS376521C	BT BID30X08STL CMT (CH)
8	EW438406C	CORD VX FFC MA-F(C)L70 13P [EXCEPT EA-D]
9	EW438404C	CORD VX FFC OP-MA L120 10P
10	EW438405C	CORD VX FFC F-MA L200 5P [G795 - G797 & OEM ONLY]
11	SA422907C	FOOT AX (CH)
12-A	SP438039C	PANEL FRONT(B)E1 (CH) [780EDG/EO, 781EO, 785EA]
12-B	SP438100C	PANEL FRONT(B)F1 (CH) [G780SEG/G781SEG/G786SEG]
12-C	SP438119C	PANEL FRONT(B)E2 (CH) [VS-G781EK-N ONLY]
12-D	SP438037C	PANEL FRONT(A)E1 (CH) [795EA,796EDG,796EK-SILVER,797EK, 797EO-**]
12-E	SP438123C	PANEL FRONT(A)E3 (CH) [VS-G796EK-N BLACK]
12-F	SP438110C	PANEL FRONT(A)F1 (CH) [VS-G796SEG-N ONLY]
13	ZG438047C	SP MASK (CH)
14-A	SE438071C	MASK CASSETTE VS-G780(E1) (CH) [VS-G780EDG]
14-B	SE438076C	MASK CASSETTE VS-G780(E2) (CH) [VS-G780EO-N]
14-C	SE439147C	MASK CASSETTE VS-G780(F1) (CH) [VS-G780SEG-N]
14-D	SE438072C	MASK CASSETTE VS-G781(E1) (CH) [VS-G781EK-N]
14-E	SE438073C	MASK CASSETTE VS-G781(E2) (CH) [VS-G781EO-D]
14-F	SE438126C	MASK CASSETTE VS-G781(E3) (CH) [VS-G781EO-DN]
14-G	SE438077C	MASK CASSETTE VS-G781(F1) (CH) [VS-G781SEG-N]
14-H	SE438070C	MASK CASSETTE VS-G785(E1) (CH) [VS-G785EA-D]
14-I	SE438078C	MASK CASSETTE VS-G786(F1) (CH) [VS-G786SEG-N]
14-J	SE438075C	MASK CASSETTE VS-G791(E1) (CH) [VS-G791EO-D]
14-K	SE438090C	MASK CASSETTE VS-G795(E1) (CH) [VS-G795EA-D]
14-L	SE438091C	MASK CASSETTE VS-G796(E1) (CH) [VS-G796EDG]
14-M	SE438095C	MASK CASSETTE VS-G796(E2) (CH) [VS-G796EO-D]
14-N	SE438092C	MASK CASSETTE VS-G796(E3) (CH) [VS-G796EK-N/EO-DN-SILVER]
14-O	SE438124C	MASK CASSETTE VS-G796(E4) (CH) [VS-G796EK-N BLACK]
14-P	SE439148C	MASK CASSETTE VS-G796(E5) (CH) [VS-G796EO-DN(S) FOR NZ]
14-Q	SE438093C	MASK CASSETTE VS-G797(E1) (CH) [VS-G797EK-N UK/IR]
14-R	SE438094C	MASK CASSETTE VS-G797(E2) (CH) [VS-G797EK-N HK]
15-A	SE438098C	WINDOW FLD(B)E2 (CH) [VS-G780EDG]
15-B	SE438099C	WINDOW FLD(B)F1 (CH) [VS-G780/781/786SEG-N]
15-C	SE438042C	WINDOW FLD(B)E1 (CH) [G780EO,781EK/EO-**,785EA,791EO]
15-D	SE438045C	WINDOW FLD(A)E1 (CH) [VS-795EA-D]
15-E	SE438103C	WINDOW FLD(A)E2 (CH) [VS-G796EDG]
15-F	SE438109C	WINDOW FLD(A)E3 (CH) [G796EK-N,G797EK-N-SLVER]
15-G	SE438105C	WINDOW FLD(A)E5 (CH) [G796EO-** EXCEPT (S)NZ]
15-H	SE438102C	WINDOW FLD(A)E4 (CH) [G796EO-DN(S),G797EK-N-BLACK]
15-I	SE438108C	WINDOW FLD(A)F1 (CH) [VS-G796SEG-N]
16-A	SB438040C	BUTTON OP(B)1 (CH) [780EDG/EO/SEG,781EO-**/SEG,785EO, 786SEG,791EO]
16-B	SB438121C	BUTTON OP(B)2 (CH) [VS-G781EK-N]
16-C	SB438038C	BUTTON OP(A)1 (CH) [795EA,796EDG/EK(SLV)EO/SEG,797EK]
16-D	SB438127C	BUTTON OP(A)2 (CH) [VS-G796EK-N BLACK]
17	SZ438044C	CAP BUTTON (CH)
18	SM438046C	NAME PLATE AKAI VX (CH)
20-A	BD437971C	PANEL F(N)VCR1938 PART (CH)
20-B	BD437963C	PANEL F(N)VCR3088 PART (CH)
20-C	BD437972C	PANEL F(L)VCR4088 PART (CH)
20-D	BD437974C	PANEL F(L)VCR6858 PART (CH)
21	ZG429541C	SP MASK(4) (CH)
22-A	SE436452C	MASK CASSETTE SALORA(2) (CH)
22-B	SE436450C	MASK CASSETTE NOKIA(2) (CH)
22-C	SE436416C	MASK CASSETTE LUXOR (CH)
22-D	SE436418C	MASK CASSETTE FINLUX (CH)
23	SE436448C	DOOR(N) (CH)
24	SZ390032C	LATCH DOOR 3550-1

NOTE :

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

16. ACCESSORY

Ref. No.	Part No.	Description
1-A	AV438369C	REMOCON RC-Y151E [G780EDG/EO,G781EK/EO-**]
1-B	AV438364C	REMOCON RC-Y151F [G780SEG-N]
1-C	AV438363C	REMOCON RC-Y171F [G781/786/796SEG-N]
1-D	AV438368C	REMOCON RC-Y181E [G785EA-D, G795EA-D]
1-E	AV438367C	REMOCON RC-Y171E [G791EO,G796EDG/EO-** EXCEPT(S)]
1-F	AV438365C	REMOCON RC-Y161E [G796EK-N, G797EK-N(B)]
1-G	AV438356C	REMOCON RC-Y186E [G796EO(S), G797EK-N(Y6)]
1-H	AV438360C	REMOCON RC-Y171SL [VCR1938NE]
1-I	AV438361C	REMOCON RC-Y171NK [VCR3088CE/NE]
1-J	AV438359C	REMOCON RC-Y171LX [VCR4088NE]
1-K	AV438357C	REMOCON RC-Y171FL [VCR6858NE]
2-A	EW430842C	AC CORD 200S SF200 SF201 E [EDG/EO/SEG & OEM]
2-B	EW439085C	AC CORD 200S BS1363 2.5A250V B [EK-N]
2-C	EW430840C1	AC CORD 200S SF91A SF201 S [EA, VS-G796EO-DN(S)/NZ]
3-A	AV437225C	CORD PAL 1.2M-UNION [EXCEPT SEG-N]
3-B	AV348415C	CORD SECAM [SEG-N]
4-A	AV439611C	CORD 21P-RCA 1.2M [VS-G796EK-N BLACK]
4-B	AV427525C	CORD 21PIN AV CABLE [SEG-N]

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Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
AV348415C	16-3-B	BV438371C	5-MD601-E	EE438420C	5-TU601-A	EJ435428C	11-PJ301
AV427525C	16-4-B	BV438417C	5-MD601-B	EF394702C	5-F201	EJ436219C	10-PJ1
AV437225C	16-3-A	EC412095C	8-VC60	EF438424C	5-F202	EJ437181C	10-PJ3
AV438356C	16-1-G	EC412095C	8-VC61	EH394947C	5-FL701	EJ437182C	10-PJ2
AV438357C	16-1-K	EC418759C	5-C212	EH394948C	6-FL4-A	EJ437183C	12-PJ201
AV438359C	16-1-J	EC422101C	5-C201	EH405642C	6-FL3-B	EJ437229C	13-PJ401
AV438360C	16-1-H	EC422101C	5-C202	EH414623C	7-FL2	EJ437230C	12-P201
AV438361C	16-1-I	EC432909C	5-C437	EH414623C	8-FL90	EJ437241C	5-P801
AV438363C	16-1-C	EC432918C	5-C210	EH416920C	6-FL4-B	EJ437243C	5-P803
AV438364C	16-1-B	EC435665C	5-C211	EH428166C	6-FL1-B	EJ438354C	11-P301
AV438365C	16-1-F	EC435729C	5-C203	EH432625C	6-FL1-C	EJ438376C	5-P401
AV438367C	16-1-E	EC435729C	5-C204	EH432626C	6-FL1-A	EM438397C	9-FL101
AV438368C	16-1-D	EC435729C	5-C205	EH432629C	6-FL2-A	EO345888	5-L182
AV438369C	16-1-A	EC435729C	5-C206	EH432948C	6-FL3-A	EO353587	5-L401
AV439611C	16-4-A	EC435729C	5-C207	EH432948C	7-FL3	EO353587	5-L402
BAF5003C010A	4-2-A	EC435729C	5-C208	EH432948C	8-FL91	EO357539C	5-L152
BAF5003C010B	4-2-C	ED307573C	5-D207	EH433121C	7-FL52	EO357630C	5-L73
BAF5003C010E	4-2-D	ED307573C	5-D233	EH433121C	8-FL50	EO357630C	5-L303
BAF5003C020B	4-2-E	ED307573C	5-D301	EH433122C	7-FL53	EO357630C	9-L101
BAF5003C030A	4-2-B	ED307573C	5-D411	EH433123C	7-FL51	EO382619J	5-L701
BAV1285C600A	4-1-G	ED307573C	5-D419	EH435679C	7-FL1	EO389412C	5-L4
BAV1285C600B	4-1-J	ED307573C	5-D603	EH437233C	6-FL2-B	EO389412C	5-L5
BAV1285C600C	4-1-A	ED307573C	5-D604	EH437233C	8-FL1	EO389412C	5-L301
BAV1285C600D	4-1-K	ED307573C	5-D606	EH438408C	8-FL20	EO389412C	5-L302
BAV1285C600E	4-1-D	ED307573C	5-D607	EI213390C	14-IC2	EO389412C	5-L604
BAV1285C600F	4-1-L	ED307573C	5-D801	EI337530C	5-IC601	EO389412C	5-L607
BAV1285C600G	4-1-Q	ED307573C	9-D101	EI368809C	7-IC1	EO389412C	5-L801
BAV1285C600H	4-1-R	ED307573C	9-D102	EI368829C	7-X1	EO389412C	5-L851
BAV1285C600K	4-1-H	ED307573C	9-D103	EI389644C	5-IC701	EO389412C	5-L907
BAV1285C600L	4-1-P	ED307573C	10-D31	EI422128C	5-IC201	EO389412C	10-L31
BAV1285C605A	4-1-B	ED307573C	10-D32	EI422145C	9-IC101	EO389412C	14-L1
BAV1285C605B	4-1-O	ED307573C	14-D2	EI425240C	5-X401	EO389412C	14-L2
BAV1285C605C	4-1-E	ED390011C	5-D402	EI430836C	5-X2	EO389412C	14-L5
BAV1285C605E	4-1-I	ED390012C	5-D403	EI431006C	5-X1	EO403273C	8-L40
BAV1285C605G	4-1-M	ED390012C	5-D404	EI431275C	5-IC404	EO403937C	6-L9-A
BAV1285C605J	4-1-F	ED403280C	5-D236	EI432759C	6-IC1	EO408834C	7-L52
BAV1285C605K	4-1-N	ED403280C	5-D237	EI432899C	5-IC901	EO408838C	8-L2
BAV1285C620C	4-3-A	ED403280C	5-D238	EI433060C	14-IC1	EO408838C	8-L21
BAV1285C620D	4-3-B	ED403280C	5-D239	EI433914C	14-X1	EO408838C	8-L60
BAV1285C620G	4-3-C	ED403280C	5-D245	EI435187C	5-IC407	EO408838C	8-L80
BAV1285C620H	4-3-D	ED403280C	5-D415	EI435189C	5-IC801	EO408956C	6-L10
BAV1285C630A	4-4-A	ED403280C	5-D416	EI435229C	5-IC3	EO408956C	7-L6
BAV1285C630B	4-4-B	ED403280C	5-D417	EI435272C	5-IC2	EO408957C	8-L90
BAV1285C630C	4-4-C	ED416930C	8-D20	EI437232C	5-IC301	EO414614C	5-L151
BAV1285C630D	4-4-D	ED416930C	8-D21	EI437235C	8-IC1	EO414616C	5-L901
BAV1285Q600J	4-1-C	ED416930C	8-D60	EI437238C	8-X80	EO414620C	5-L1
BAV1285Q605L	4-1-S	ED416930C	8-D62	EI438248C	5-IC202	EO414620C	5-L101
BAV1285Q605M	4-1-T	ED418622C	5-D201	EI438372C	5-IC403	EO414620C	5-L903
BAV1287Q620B	4-3-E	ED418622C	5-D202	EI438383C	5-IC852	EO414622C	5-L71
BAV1287Q620D	4-3-F	ED418622C	5-D203	EI438399C	5-IC4-A	EO414622C	5-L181
BB433174C	2-18	ED418622C	5-D204	EI438400C	5-IC1	EO416716C	6-L9-B
BD437963C	15-20-B	ED418820C	5-D234	EI438416C	5-X701	EO416716C	7-L51
BD437971C	15-20-A	ED418918C	5-D407	EI438421C	5-IC702	EO418521C	5-L2
BD437972C	15-20-C	ED422420C	5-D226	EI438488C	5-X402	EO419251C	6-L9-C
BD437974C	15-20-D	ED422420C	5-D227	EI439114C	5-IC5	EO422474C	5-L906
BL433538N6	2-7	ED422519C	5-D420	EI439443C	5-IC401-A	EO422474C	7-L5
BL433609N4	2-5	ED427173C	14-D1	EI439444C	5-IC401-D	EO422477C	5-L51
BL433689C	2-509	ED427618C	5-D605	EI439445C	5-IC401-B	EO422477C	5-L102
BL438155C	2-17	ED427719C	9-D106	EI439614C	5-IC401-C	EO422477C	5-L103
BM433198T	2-501	ED428420C	5-D221	EI439617C	5-IC4-B	EO422479C	5-L902
BM433593N1	3-3	ED428420C	5-D225	EI439673C	5-IC402	EO422481N	5-L905
BM438348C	3-500	ED434522C	5-D235	EJ416590C	5-P201	EO422483C	5-L72
BT438422C	5-T201	ED435478C	5-D224	EJ429978C	5-PJ802	EO422488C	5-L601
BVV1234D430D	2-504	ED435728C	5-D223	EJ433184C	5-P402	EO422488C	5-L602
BV429839C1	5-MD601-A	ED436213C	5-D205	EJ433220C	5-P405	EO422488C	5-L603
BV433522N2	2-1	ED438389C	5-D220	EJ433222C	5-P301	EO422488C	5-L605
BV433534N3	2-2	ED439308C	5-D614	EJ433223C	10-P4	EO422488C	5-L702
BV433615N8	2-16	EE435227C	5-TU601-B	EJ434181C	5-P2	EO422488C	5-L904
BV434180C	5-MD601-D	EE438370C	5-TU601-D	EJ434181C	5-P403	EO427255C	8-L20
BV435423C	5-MD601-C	EE438419C	5-TU601-C	EJ434183C	9-P101	EO428123C	6-L4-B

Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
EO428123C	7-L1	ET403869C	5-TR202	ET429897C	5-TR851	SB438121C	15-16-B
EO428259C	6-L4-C	ET414816C	5-TR608	ET429897C	5-TR852	SB438127C	15-16-D
EO428463C	6-L4-A	ET416697C	5-TR210	ET429897C	5-TR907	SE436416C	15-22-C
EO428463C	8-L1	ET416932C	5-TR5	ET429897C	8-TR41	SE436418C	15-22-D
EO432681C	6-L5	ET416932C	5-TR7	ET429897C	8-TR51	SE436448C	15-23
EO432682C	8-L92	ET416932C	5-TR8	ET429897C	8-TR81	SE436450C	15-22-B
EO432683C	8-L91	ET416932C	5-TR9	ET429899C	5-TR906	SE436452C	15-22-A
EO435235C	6-VL1	ET416932C	5-TR101	ET430868C	5-TR405	SE438042C	15-15-C
EO435236C	6-VL2	ET416932C	5-TR406	ET430868C	8-TR60	SE438045C	15-15-D
EO435237C	6-VL6-B	ET416932C	5-TR411	ET430868C	8-TR61	SE438070C	15-14-H
EO435239C	6-VL6-A	ET416932C	5-TR603	ET430868C	8-TR100	SE438071C	15-14-A
EO435241C	6-VL7	ET416932C	5-TR604	ET430868C	8-TR102	SE438072C	15-14-D
EO435242C	6-VL8	ET416932C	5-TR605	ET432740C	6-TR3	SE438073C	15-14-E
EO435245C	8-VL1	ET416932C	5-TR610	ET432740C	7-TR1	SE438075C	15-14-J
EO435254C	14-L3	ET416932C	5-TR611	ET432740C	8-TR2	SE438076C	15-14-B
EO435416C	7-VL3	ET416932C	5-TR614	ET432740C	8-TR20	SE438077C	15-14-G
EO435417C	7-VL4	ET416932C	5-TR616	ET433071C	5-TR412	SE438078C	15-14-I
EO435421C	7-VL2	ET416932C	5-TR801	ET433071C	5-TR601	SE438090C	15-14-K
EO435766C	5-VL701	ET416932C	5-TR802	ET433071C	5-TR902	SE438091C	15-14-L
EO437236C	8-VL40	ET416932C	5-TR901	ET433072C	5-TR303	SE438092C	15-14-N
EO437237C	8-VL60	ET416932C	7-TR2	ET433072C	5-TR304	SE438093C	15-14-Q
EO437239C	8-VL61	ET416932C	7-TR4	ET433072C	5-TR804	SE438094C	15-14-R
EO438249C	5-L202	ET416932C	8-TR40	ET433072C	5-TR855	SE438095C	15-14-M
EO438250C	5-L203	ET416932C	8-TR91	ET433072C	8-TR92	SE438098C	15-15-A
EO438250C	5-L204	ET416933C	5-TR1	ET433976C	5-TR102	SE438099C	15-15-B
EO438251C	5-L201	ET416933C	5-TR2	ET434246C	5-TR206	SE438102C	15-15-H
EO438432C	5-FL181	ET416933C	5-TR10	ET437201C	5-TR172	SE438103C	15-15-E
ER400729C	5-FR402	ET416933C	5-TR72	ET437201C	5-TR410	SE438105C	15-15-G
ER418648C	5-FR401	ET416933C	5-TR73	ET437201C	-TR82	SE438108C	15-15-I
ER418648C	5-FR403	ET416933C	5-TR103	ET438352C	5-TR183	SE438109C	15-15-F
ER422181C	5-R206	ET416933C	5-TR170	ET438352C	5-TR184	SE438124C	15-14-O
ER422189C	5-R201	ET416933C	5-TR615	ET438353C	5-TR182	SE438126C	15-14-F
ER422512C	5-R208	ET416933C	5-TR805	ET438425C	5-TR152	SE439147C	15-14-C
ER428386C	5-R210	ET416933C	5-TR853	ET438425C	5-TR181	SE439148C	15-14-P
ER435803C	5-FR201	ET416933C	5-TR854	EV397433C	5-VR701	SM438046C	15-18
ER435803C	5-FR202	ET416933C	5-TR870	EV432752C	7-VR1	SP435920C	15-1-B
ES433183C	5-SW401	ET416933C	5-TR871	EV432754C	6-VR1	SP436152C	15-1-A
ES433200C	9-SW101	ET416933C	5-TR872	EV437240C	8-VR50	SP437781C	15-5-A
ES433200C	9-SW102	ET416933C	5-TR903	EW430840C1	16-2-C	SP437783C	15-5-B
ES433200C	9-SW103	ET416933C	5-TR905	EW430842C	16-2-A	SP437784C	15-5-C
ES433200C	9-SW104	ET416933C	6-TR6	EW438403C	15-6	SP438037C	15-12-D
ES433200C	9-SW105	ET416933C	6-TR7	EW438404C	15-9	SP438039C	15-12-A
ES433200C	9-SW107	ET416933C	7-TR3	EW438405C	15-10	SP438100C	15-12-B
ES433200C	9-SW108	ET416933C	7-TR51	EW438406C	15-8	SP438110C	15-12-F
ES433200C	9-SW109	ET416933C	7-TR52	EW439085C	16-2-B	SP438119C	15-12-C
ES433200C	9-SW110	ET416933C	8-TR21	HE433151C	2-506	SP438123C	15-12-E
ES433595N	3-1	ET416933C	8-TR22	HR435698C3	2-508	SZ390032C	15-24
ET361961C	5-TR28	ET416933C	8-TR50	HZ417681N	2-510	SZ428508C	5-500
ET361961C	5-TR29	ET416933C	8-TR80	MB433627C	3-501	SZ433648C	5-600
ET362842C	10-TR3	ET416933C	8-TR90	MI433579N5	3-11	SZ433649C	5-400
ET362842C	10-TR11	ET422113C	5-PH201	MI433597N9	3-10	SZ438044C	15-17
ET364084C	5-TR806	ET427539C	5-TR201	ML433546N2	2-13	VT433526N	2-3
ET364291N	5-TR873	ET428361C	9-PH101	ML433553N1	2-12	ZG428605N	3-13
ET364291N	5-TR904	ET428400C	5-TR408	ML433560N	2-11	ZG429541C	15-21
ET368786C	5-TR207	ET428400C	8-TR1	ML433567N1	2-15	ZG433557N	2-14
ET368786C	5-TR213	ET429896C	5-TR77	ML433576N	3-7	ZG433559N1	2-9
ET390009C	5-TR401	ET429896C	5-TR302	ML433584N	3-12	ZG433608N5	2-10
ET390009C	5-TR402	ET429896C	5-TR803	ML433586N1	3-8	ZG438047C	15-13
ET390010C	5-TR403	ET429896C	8-TR101	ML433604N5	2-8	ZS323728C	15-4
ET390010C	5-TR404	ET429896C	8-TR103	ML433628C	2-511	ZS344754C	2-507
ET392663C	5-TR151	ET429897C	5-TR6	ML435645N1	3-5	ZS376521C	15-7
ET392663C	5-TR205	ET429897C	5-TR74	MT433537N2	2-6	ZS389950N	3-2
ET392663C	5-TR209	ET429897C	5-TR75	MZ433568N1	3-6	ZS393515C	15-2
ET392663C	5-TR211	ET429897C	5-TR76	MZ433578N	3-14	ZS403887C	2-505
ET392663C	5-TR212	ET429897C	5-TR171	MZ433589N1	3-9	ZS417161T	2-500
ET392663C	5-TR701	ET429897C	5-TR301	MZ433591N	3-4	ZS418616J	2-4
ET392663C	10-TR1	ET429897C	5-TR606	MZ433904T	2-502	ZS426416C	15-3
ET392663C	14-TR1	ET429897C	5-TR607	SA422907C	15-11	ZS436277C	3-502
ET392663C	14-TR2	ET429897C	5-TR617	SB438038C	15-16-C	ZS479474C	2-503
ET392746C	5-TR602	ET429897C	5-TR807	SB438040C	15-16-A		

MEMO

MEMO

AKAI

MODEL VS-G780/G796 EDG, G780 EO-N
MODEL VS-G780/G781/G786/G796 SEG-N
MODEL VS-G781/G796/G797 EK-N
MODEL VS-G781/G791/G796 EO-D
MODEL VS-G781/G796 EO-DN, G785/G795 EA-D

SCHEMATIC DIAGRAMS AND PC BOARDS

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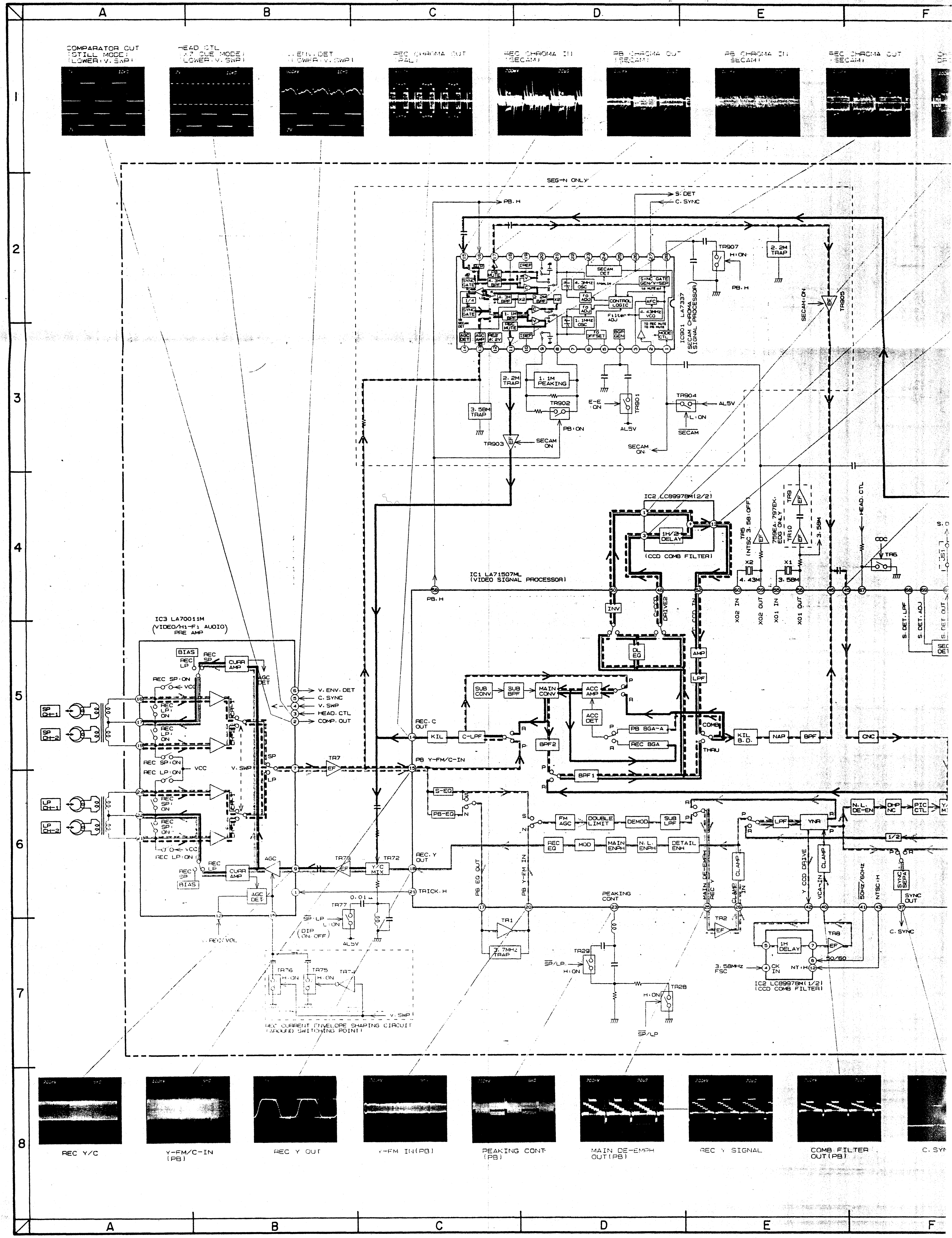
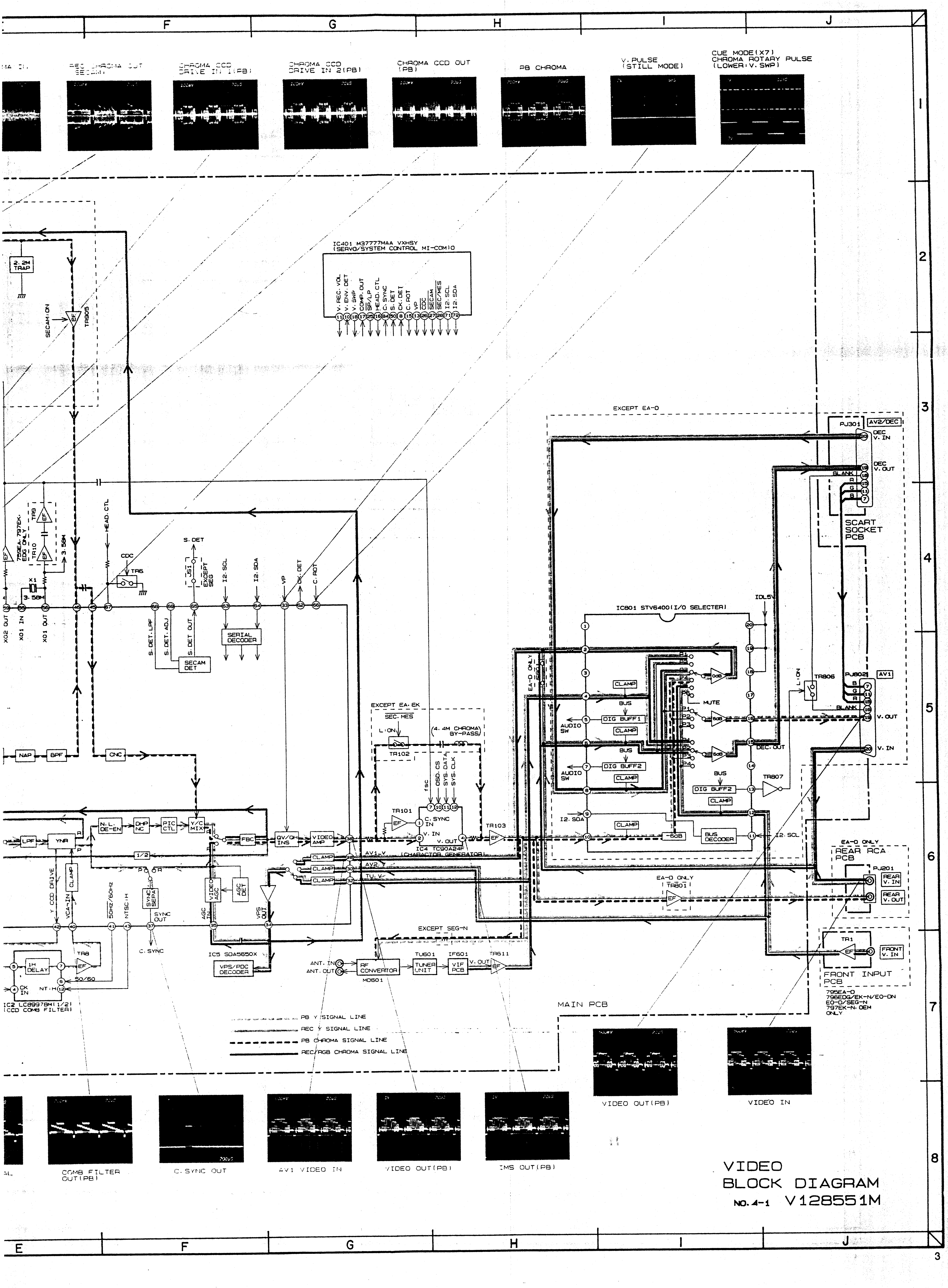
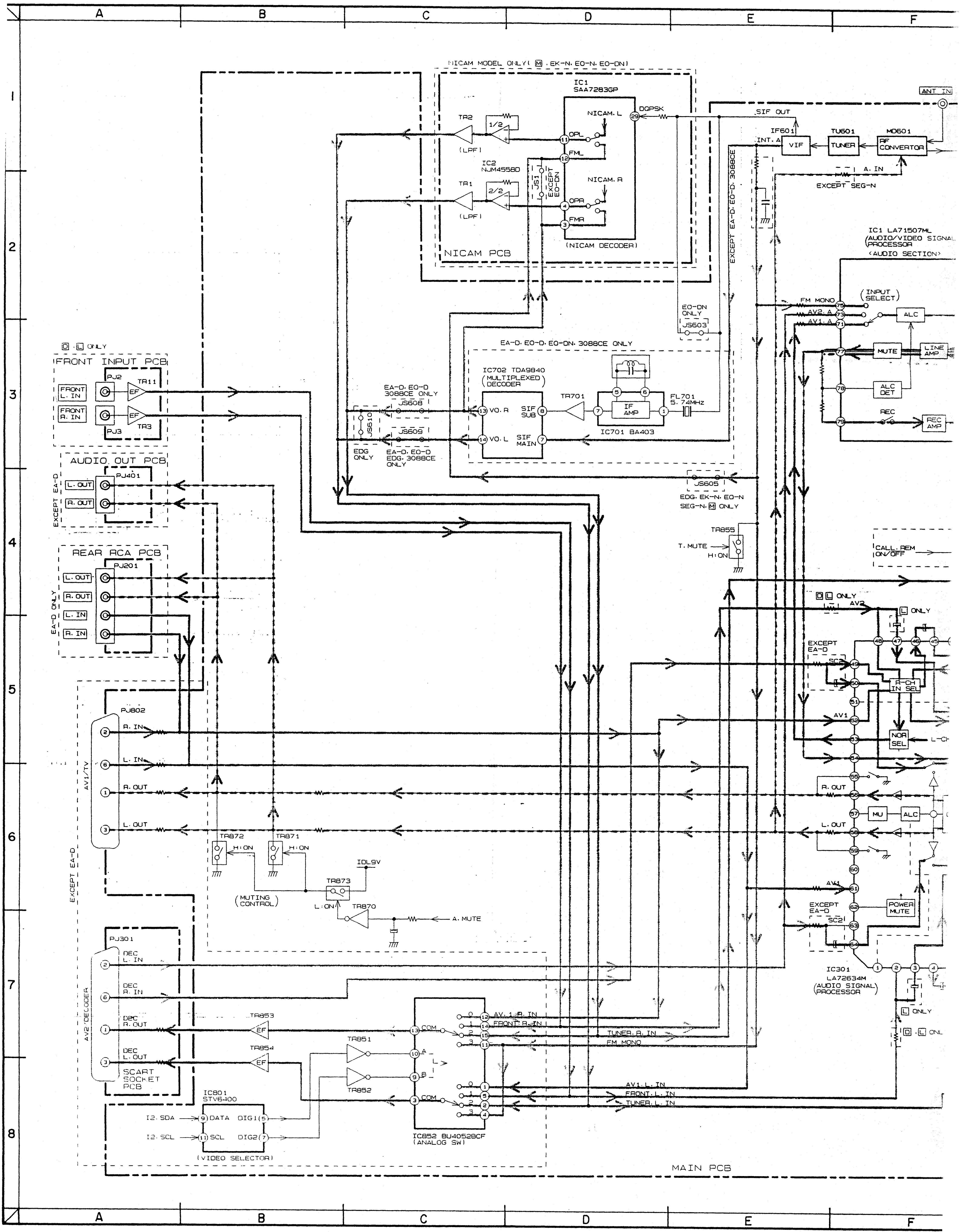
Use these schematic diagrams and PC boards together with the provided service manual.

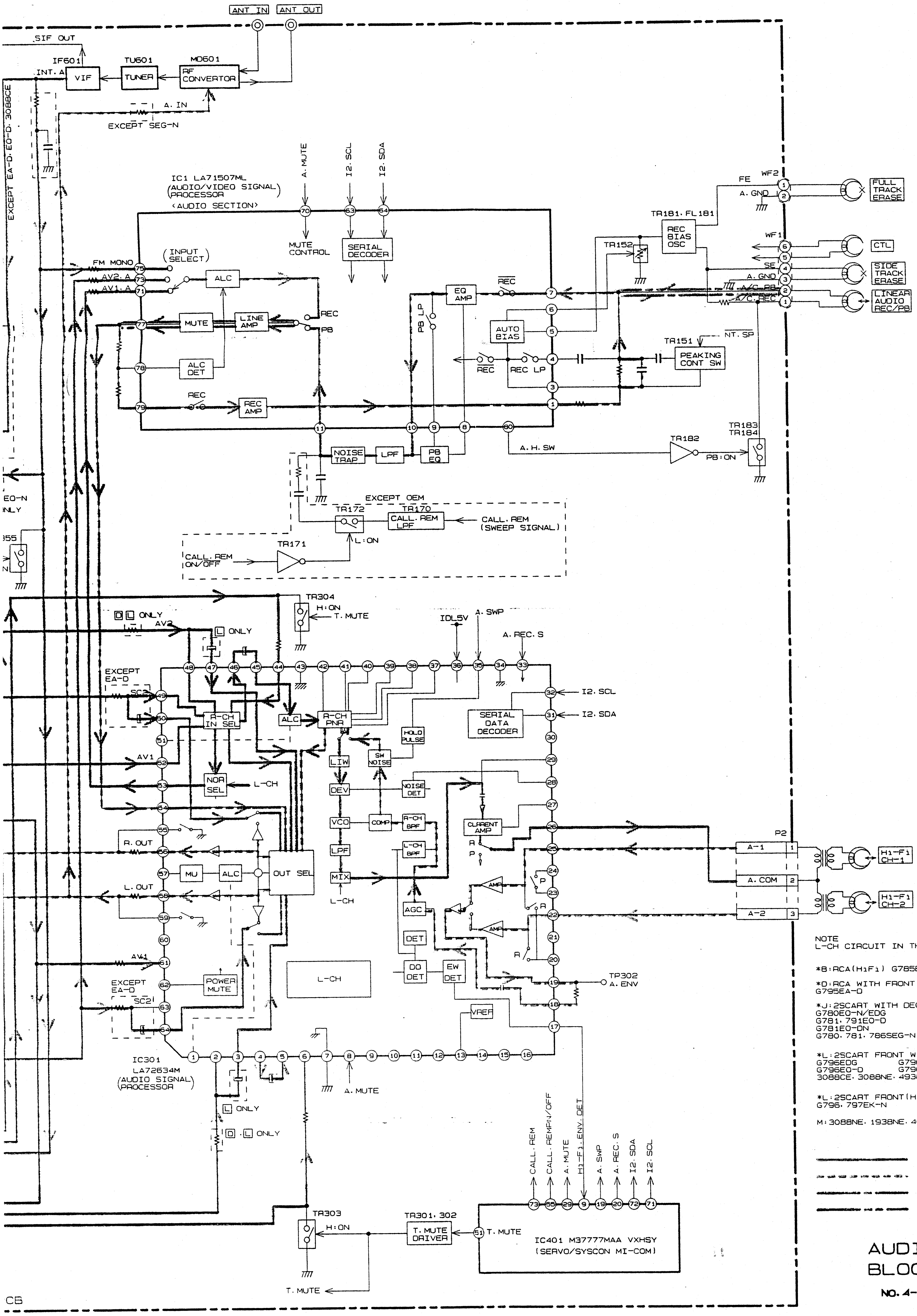

A
B
C
D
E
F
1
2
3
4
5
6
7
8
COMPARATOR OUT (STILL MODE) (LOWER: V. SWP)
HEAD CTL (FF/REW CUE MODE) (LOWER: V. SWP)
V. ENV. DET (LOWER: V. SWP)
REC CHROMA OUT (PAL)
REC CHROMA IN (SECAM)
PB CHROMA OUT (SECAM)
PB CHROMA IN (SECAM)
REC CHROMA OUT (SECAM)
SEG-N ONLY
PB. H
S. DET
C. SYNC
TR907
H: ON
2. 2M TRAP
SECAM DET
SYNC GATE GEN/V-SEP
4. 3M BPF
4. 3MHz OSC
f0 ADJ
CONTROL LOGIC
AFC
4. 43MHz VCO
1. 1MHz OSC
f0 OFFSET
BGP GEN
MODE CTL
AGC DET
ACC AMP
REG 4. 2V
IREF
1. 1M BPF
REC MUTE
PB MUTE
IC901 LA7337 (SECAM CHROMA SIGNAL PROCESSOR)
SECAM: ON
TR905
2. 2M TRAP
1. 1M PEAKING
TR902
PB: ON
3. 58M TRAP
TR903
SECAM ON
E-E ON
TR901
AL5V
TR904
L: ON
SECAM
SECAM ON
IC2 LC89978M(2/2)
1H/2H DELAY
(CCD COMB FILTER)
TR5 (NTSC 3. 58: OFF)
759EA. 797EK. EDG ONLY
TR9
TR10
3. 58M
X2
4. 43M
X1
3. 58M
HEAD. CTL
CDC
TR6
IC1 LA71507ML (VIDEO SIGNAL PROCESSOR)
INV
CCD DRIVE2
CCD IN
X02 IN
X02 OUT
X01 IN
X01 OUT
S. DET. LPF
S. DET. ADJ
S. DET OUT
DL EQ
AMP
LPF
IC3 LA70011M (VIDEO/Hi-Fi AUDIO PRE AMP)
BIAS
REC SP
REC LP
CURR AMP
AGC DET
REC SP: ON
VCC
SP CH-1
SP CH-2
LP CH-1
LP CH-2
REC LP: ON
REC SP: ON
V. SWP
SP
LP
V. ENV. DET
C. SYNC
V. SWP
HEAD. CTL
COMP. OUT
TR7
EF
REC. C OUT
KIL
C-LPF
SUB CONV
SUB BPF
MAIN CONV
ACC AMP
ACC DET
PB BGA-A
REC BGA
BPF2
BPF1
COMB
THRU
KIL B.D.
NAP
BPF
CNC
PB Y-FM/C-IN
S-EQ
PB-EQ
FM AGC
DOUBLE LIMIT
DEMOD
SUB LPF
LPF
YNR
N.L. DE-EN
DHP NC
PIC CTL
REC EQ
MOD
MAIN ENPH
N.L. ENPH
DETAIL ENH
CLAMP
1/2
AGC
TR73
TR72
Y/C MIX
REC. Y OUT
TRICK. H
PB EQ OUT
PB Y-FM IN
MAIN DE-EMPH REC Y
CLAMP IN
Y CCD DRIVE
VCA-IN
50HZ/60Hz
NTSC H
SYNC SEPA
SYNC OUT
C. SYNC
0. 01μ
TR77
SP. LP
L: ON
(DIP ON: OFF)
AL5V
V. REC VOL
TR1
3. 7MHz TRAP
PEAKING CONT
TR29
SP/LP
H: ON
TR28
H: ON
SP/LP
TR2
1H DELAY
CK IN
NT: H
50/60
3. 58MHz FSC
IC2 LC89978M(1/2) (CCD COMB FILTER)
TR8
TR76
TR75
TR74
H: ON
REC CURRENT ENVELOPE SHAPING CIRCUIT (AROUND SWITCHING POINT)
REC Y/C
Y-FM/C-IN (PB)
REC Y OUT
Y-FM IN(PB)
PEAKING CONT (PB)
MAIN DE-EMPH OUT(PB)
REC Y SIGNAL
COMB FILTER OUT(PB)
C. SYN



F
G
H
I
J
REC CHROMA OUT (SECAM)
CHROMA CCD DRIVE IN 1(PB)
CHROMA CCD DRIVE IN 2(PB)
CHROMA CCD OUT (PB)
PB CHROMA
V. PULSE (STILL MODE)
CUE MODE(X7) CHROMA ROTARY PULSE (LOWER: V. SWP)
IC401 M37777MAA VXHSY (SERVO/SYSTEM CONTROL MI-COM)IO
V. REC. VOL
V. ENV. DET
V. SWP
COMP. OUT
SP/LP
HEAD. CTL
C. SYNC
S. DET
CK. DET
C. ROT
VP
CDC
SECAM
SEC/MES
I2. SCL
I2. SDA
2.2M TRAP
SECAM. ON
TR905
EF
795EA. 797EK-EO ONLY
TR9
TR10
3.58M
X1
3.58M
HEAD. CTL
CDC
TR6
S. DET
JS1
EXCEPT SEG
I2. SCL
I2. SDA
VP
CK. DET
C. ROT
X02 OUT
X01 IN
X01 OUT
S. DET. LPF
S. DET. ADJ
S. DET OUT
SECAM DET
SERIAL DECODER
EXCEPT EA-O
PJ301
AV2/DEC
DEC V. IN
DEC V. OUT
BLANK
R
G
B
SCART SOCKET PCB
IC801 STV6400(I/O SELECTER)
IOL5V
CLAMP
BUS
MUTE
AUDIO SW
DIG BUFF1
DIG BUFF2
0dB
6dB
-6dB
I2. SDA
BUS DECODER
I2. SCL
TR807
TR806
L: ON
PJ802
AV1
V. OUT
V. IN
DEC. OUT
EA-O ONLY
NAP
BPF
CNC
EXCEPT EA. EK
SEC. MES
L: ON
TR102
(4.4M CHROMA) BY-PASS
fsc
OSD. CS
SYS. DATA
SYS. CLK
TR101
C. SYNC IN
V. IN
V. OUT
IC4 TC90A24F (CHARACTOR GENERATOR)
TR103
LPF
YNR
N.L. DE-EN
DHP NC
PIC CTL
Y/C MIX
FBC
QV/OH INS
VIDEO AMP
1/2
CLAMP
AV1. V
AV2. V
TU. V
VIDEO AGC
AGC DET
VPS OUT
AGC IN
Y CCD DRIVE
VCA-IN
CLAMP
50HZ/60Hz
NTSC. H
SYNC SEPA
SYNC OUT
C. SYNC
IC5 SDA5650X
VPS/PDC DECODER
1H DELAY
TR8
EF
50/60
CK IN
NT. H
IC2 LC89978M(1/2) (CCD COMB FILTER)
EXCEPT SEG-N
ANT. IN
ANT. OUT
RF CONVERTOR
MD601
TU601
TUNER UNIT
IF601
VIF PCB
V. OUT
TR611
EF
EA-O ONLY
TR801
EF
EA-O ONLY
REAR RCA PCB
PJ201
REAR V. IN
REAR V. OUT
TR1
FRONT V. IN
FRONT INPUT PCB
795EA-O 796EDG/EK-N/EO-ON EO-D/SEG-N 797EK-N. OEM ONLY
MAIN PCB
PB Y SIGNAL LINE
REC Y SIGNAL LINE
PB CHROMA SIGNAL LINE
REC/RGB CHROMA SIGNAL LINE
VIDEO OUT(PB)
VIDEO IN
COMB FILTER OUT(PB)
C. SYNC OUT
AV1 VIDEO IN
VIDEO OUT(PB)
IMS OUT(PB)
E
1
2
3
4
5
6
7
8

VIDEO
BLOCK DIAGRAM
NO. 4-1 V128551M


A
B
C
D
E
F
1
2
3
4
5
6
7
8
NICAM MODEL ONLY(M . EK-N, EO-N, EO-DN)
IC1
SAA7283GP
NICAM. L
DQPSK
29
OPL
11
FML
12
NICAM. R
OPR
4
FMR
3
(NICAM DECODER)
TR2
1/2
(LPF)
IC2
NJM4558D
TR1
2/2
(LPF)
JS1
EXCEPT EO-DN
NICAM PCB
SIF OUT
IF601
INT. A
VIF
TU601
TUNER
MD601
RF CONVERTOR
ANT IN
A. IN
EXCEPT SEG-N
EXCEPT EA-D, EO-D, 3088CE
IC1 LA71507ML
(AUDIO/VIDEO SIGNAL PROCESSOR
(AUDIO SECTION)
(INPUT SELECT)
FM MONO
75
AV2. A
73
AV1. A
71
ALC
77
MUTE
LINE AMP
78
ALC DET
REC
79
REC AMP
EO-DN ONLY
JS603
EA-D, EO-D, EO-DN, 3088CE ONLY
IC702 TDA9840
(MULTIPLEXED DECODER)
13
VO. R
SIF SUB
8
TR701
IF AMP
5
6
7
1
FL701
5.74MHz
14
VO. L
SIF MAIN
7
IC701 BA403
EA-D, EO-D
3088CE ONLY
JS608
JS610
JS609
EDG ONLY
EA-D, EO-D
EDG, 3088CE ONLY
JS605
EDG, EK-N, EO-N
SEG-N, M ONLY
TR855
T. MUTE
H: ON
D . L ONLY
FRONT INPUT PCB
PJ2
TR11
FRONT L. IN
EF
FRONT R. IN
EF
PJ3
TR3
AUDIO OUT PCB
EXCEPT EA-D
PJ401
L. OUT
R. OUT
REAR RCA PCB
EA-D ONLY
PJ201
L. OUT
R. OUT
L. IN
R. IN
CALL. REM ON/OFF
D L ONLY
AV2
L ONLY
48
47
46
45
EXCEPT EA-D
SC2
49
50
R-CH IN SEL
51
AV1
52
53
NOR SEL
L-CH
54
55
R. OUT
56
57
MU
ALC
L. OUT
58
59
60
AV1
61
EXCEPT EA-D
62
POWER MUTE
SC2
63
64
IC301
LA72634M
(AUDIO SIGNAL PROCESSOR)
1
2
3
4
L ONLY
D . L ONL
PJ802
AV1/TV
2
R. IN
6
L. IN
1
R. OUT
3
L. OUT
EXCEPT EA-D
TR872
H: ON
TR871
H: ON
IDL9V
TR873
(MUTING CONTROL)
L: ON
TR870
A. MUTE
PJ301
AV2 DECODER
2
DEC L. IN
6
DEC R. IN
1
DEC R. OUT
TR853
EF
3
DEC L. OUT
TR854
EF
SCART SOCKET PCB
TR851
TR852
13
COM
10
A
9
B
3
COM
0
12
AV. 1. R. IN
1
14
FRONT. R. IN
2
15
TUNER. R. IN
3
11
FM MONO
0
1
AV1. L. IN
1
5
FRONT. L. IN
2
2
TUNER. L. IN
3
4
IC852 BU4052BCF
(ANALOG SW)
IC801
STV6400
I2. SDA
9
DATA
DIG1
5
I2. SCL
11
SCL
DIG2
7
(VIDEO SELECTOR)
MAIN PCB


ANT IN
ANT OUT
SIF OUT
IF601
TU601
MO601
INT. A
VIF
TUNER
RF CONVERTOR
A. IN
EXCEPT SEG-N
EXCEPT EA-D. EO-D. 3088CE
IC1 LA71507ML
(AUDIO/VIDEO SIGNAL PROCESSOR)
‹AUDIO SECTION›
A. MUTE
I2. SCL
I2. SDA
MUTE CONTROL
SERIAL DECODER
FM MONO
AV2. A
AV1. A
(INPUT SELECT)
ALC
MUTE
LINE AMP
REC
PB
ALC DET
REC AMP
EQ AMP
PB LP
AUTO BIAS
REC LP
NOISE TRAP
LPF
PB EQ
A. H. SW
TR182
PB : ON
TR183
TR184
TR181. FL181
REC BIAS OSC
TR152
TR151
PEAKING CONT SW
NT. SP
FE
A. GND
SE
A/C. PB
A/C. REC
WF2
WF1
FULL TRACK ERASE
CTL
SIDE TRACK ERASE
LINEAR AUDIO REC/PB
EXCEPT OEM
TR172
TR170
CALL. REM LPF
CALL. REM (SWEEP SIGNAL)
TR171
CALL. REM ON/OFF
L : ON
EO-N
NLY
355
TR304
H : ON
T. MUTE
D L ONLY
AV2
L ONLY
IDL5V
A. SWP
A. REC. S
EXCEPT EA-D
SC2
R-CH IN SEL
ALC
R-CH PNR
HOLD PULSE
SERIAL DATA DECODER
I2. SCL
I2. SDA
AV1
LIM
SW NOISE
NOR SEL
L-CH
DEV
NOISE DET
VCO
COMP
R-CH BPF
CURRENT AMP
R. OUT
LPF
L-CH BPF
MU
ALC
OUT SEL
MIX
L. OUT
L-CH
AGC
AMP
P
R
DET
DO DET
EW DET
AV1
EXCEPT EA-D
SC2
POWER MUTE
L-CH
TP302
A. ENV
VREF
IC301
LA72634M
(AUDIO SIGNAL PROCESSOR)
A. MUTE
L ONLY
D . L ONLY
P2
A-1
A. COM
A-2
Hi-Fi CH-1
Hi-Fi CH-2
CALL. REM
CALL. REMPN/OFF
A. MUTE
Hi-Fi ENV. DET
A. SWP
A. REC. S
I2. SDA
I2. SCL
TR303
H : ON
T. MUTE
TR301. 302
T. MUTE DRIVER
T. MUTE
IC401 M37777MAA VXHSY
(SERVO/SYSCON MI-COM)
CB

NOTE
L-CH CIRCUIT IN THE IC301 IS OMITTED.

*B : RCA(HiFi) G785EA-D

*D : RCA WITH FRONT(HiFi)
G795EA-D

*J : 2SCART WITH DEC(HiFi)
G780EO-N/EDG
G781. 791EO-D
G781EO-DN
G780. 781. 786SEG-N

*J : 2SCART(HiFi)
G781EK-N

*L : 2SCART FRONT WITH DEC(HiFi)
G796EDG G796EO-DN
G796EO-D G796SEG-N
3088CE. 3088NE. 4938NE. 4088NE. 6858NE

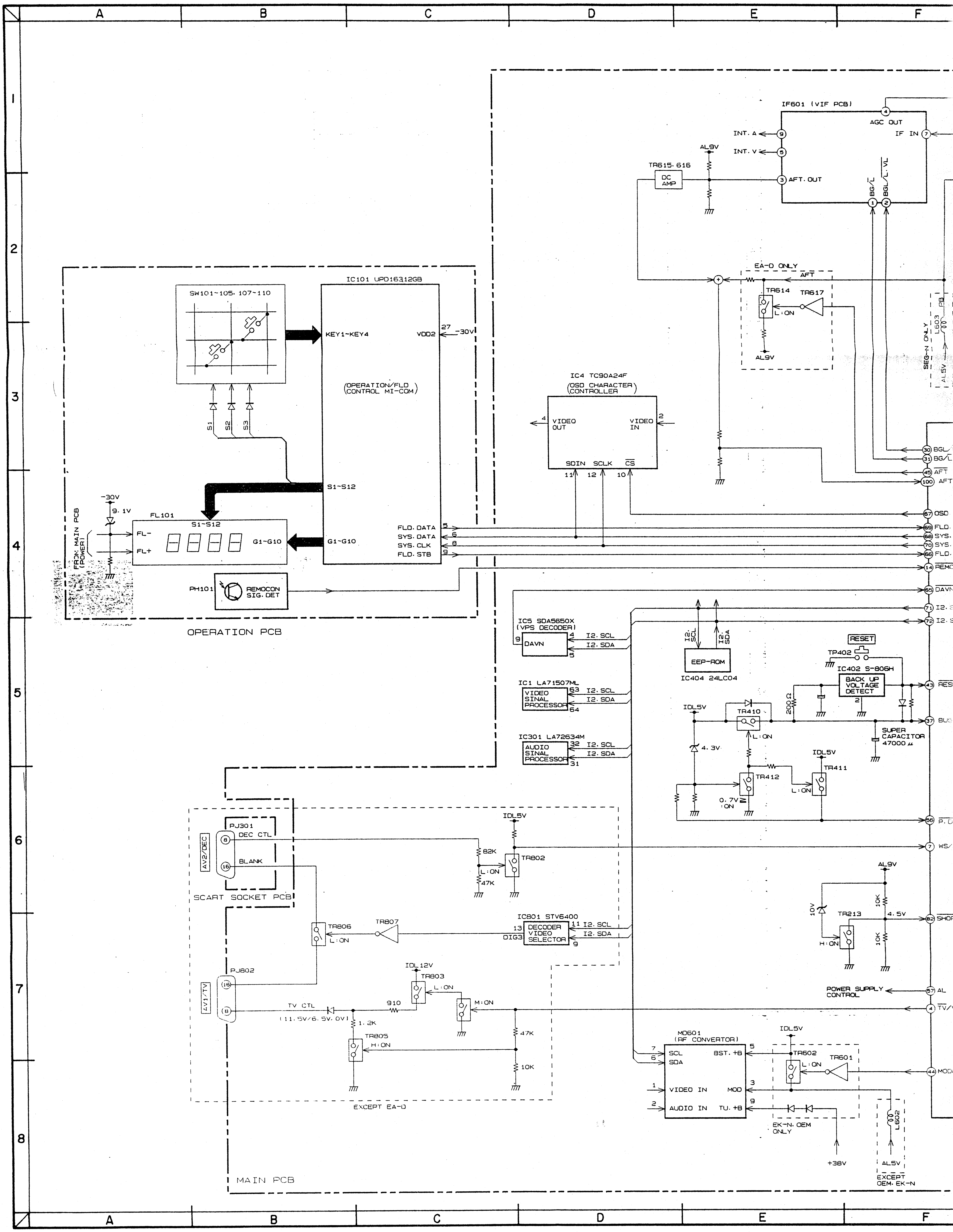
*L : 2SCART FRONT(HiFi)
G796. 797EK-N

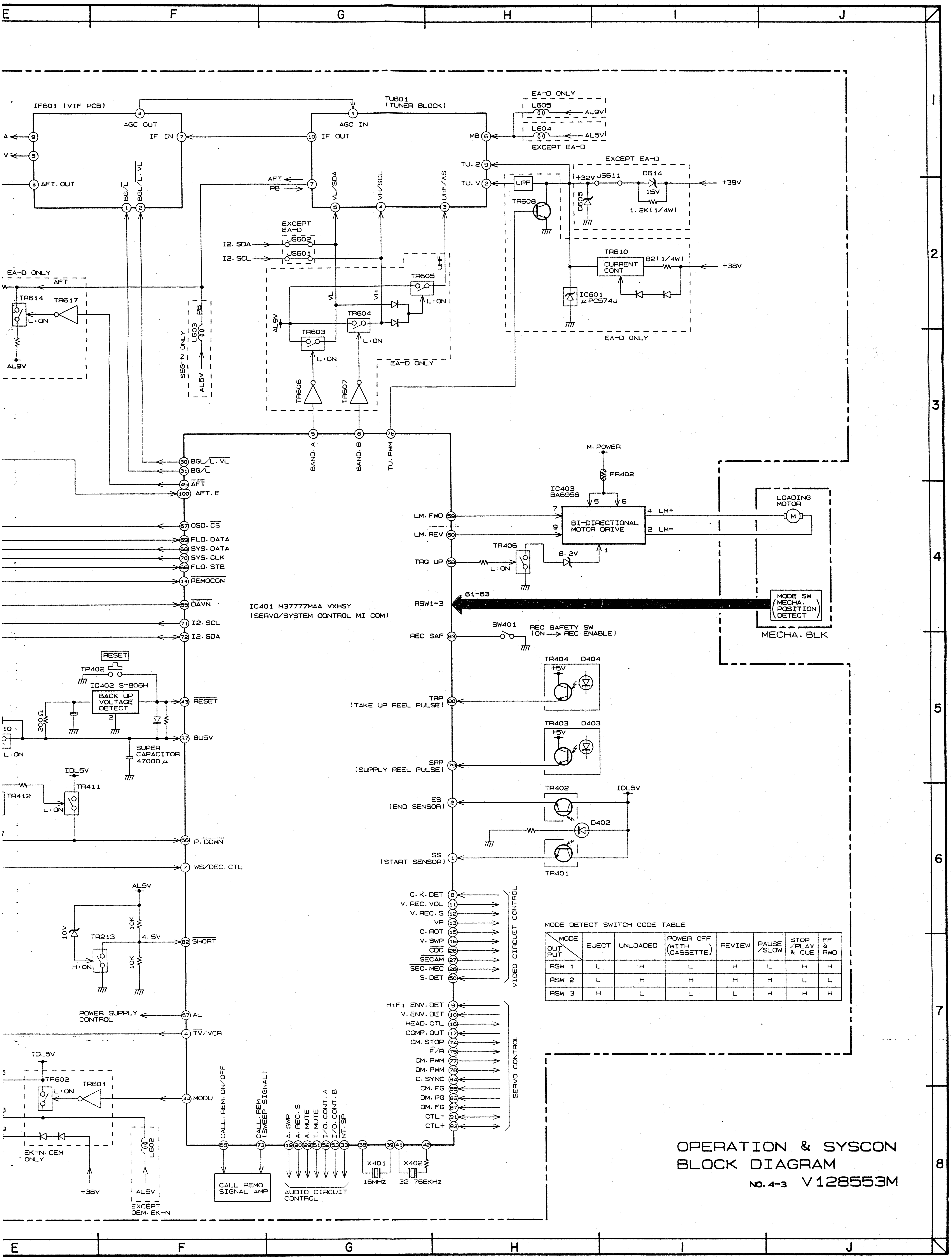
M : 3088NE. 1938NE. 4088NE. 6858NE

━━━━━━ REC & E-E AUDIO SIGNAL LINE
- - - - - - PB AUDIO SIGNAL LINE
━━━ - ━━━ LINEAR AUDIO REC SIGNAL LINE
━━━ - - ━━━ LINEAR AUDIO PB SIGNAL LINE

AUDIO BLOCK DIAGRAM

NO. 4-2 V128552M


A
B
C
D
E
F
1
2
3
4
5
6
7
8
IF601 (VIF PCB)
AGC OUT
IF IN
INT. A
INT. V
AL9V
TR615, 616
DC AMP
AFT. OUT
BG/L
BGL/L, VL
EA-D ONLY
AFT
TR614
TR617
L:ON
AL9V
SEG-N ONLY
L603
PB
AL5V
IC101 UPD16312GB
SW101~105, 107~110
KEY1~KEY4
VDD2
27
-30V
(OPERATION/FLD CONTROL MI-COM)
S1
S2
S3
S1~S12
G1~G10
IC4 TC90A24F
(OSD CHARACTER CONTROLLER)
VIDEO OUT
VIDEO IN
SDIN
SCLK
CS
11
12
10
BGL/
BG/L
AFT
AFT
OSD
FLO.
SYS.
SYS.
FLD.
REMO
DAVN
I2.
I2.
-30V
9.1V
FROM MAIN PCB (POWER)
FL101
FL-
FL+
FLD. DATA
SYS. DATA
SYS. CLK
FLD. STB
5
6
8
9
PH101
REMOCON SIG. DET
OPERATION PCB
IC5 SDA5650X (VPS DECODER)
DAVN
I2. SCL
I2. SDA
I2. SCL
I2. SDA
EEP-ROM
IC404 24LC04
RESET
TP402
IC402 S-806H
BACK UP VOLTAGE DETECT
RES
IC1 LA71507ML
VIDEO SINAL PROCESSOR
63
64
IC301 LA72634M
AUDIO SINAL PROCESSOR
32
31
IDL5V
TR410
200Ω
L:ON
BUS
4.3V
SUPER CAPACITOR 47000μ
IDL5V
TR411
TR412
L:ON
0.7V :ON
P.O
PJ301
DEC CTL
BLANK
AV2/DEC
SCART SOCKET PCB
IDL5V
82K
L:ON
47K
TR802
WS/
AL9V
10V
10K
TR213
4.5V
H:ON
10K
SHOR
TR806
L:ON
TR807
IC801 STV6400
DECODER VIDEO SELECTOR
DIG3
13
11
9
I2. SCL
I2. SDA
PJ802
AV1/TV
IDL12V
TR803
L:ON
M:ON
TV CTL
(11.5V/6.5V, 0V)
910
1.2K
TR805
H:ON
47K
10K
EXCEPT EA-D
POWER SUPPLY CONTROL
AL
TV/
IDL5V
MD601 (RF CONVERTOR)
SCL
SDA
BST. +B
VIDEO IN
MOD
AUDIO IN
TU. +B
TR602
L:ON
TR601
MOD
EK-N, OEM ONLY
+38V
L602
AL5V
EXCEPT OEM, EK-N
MAIN PCB

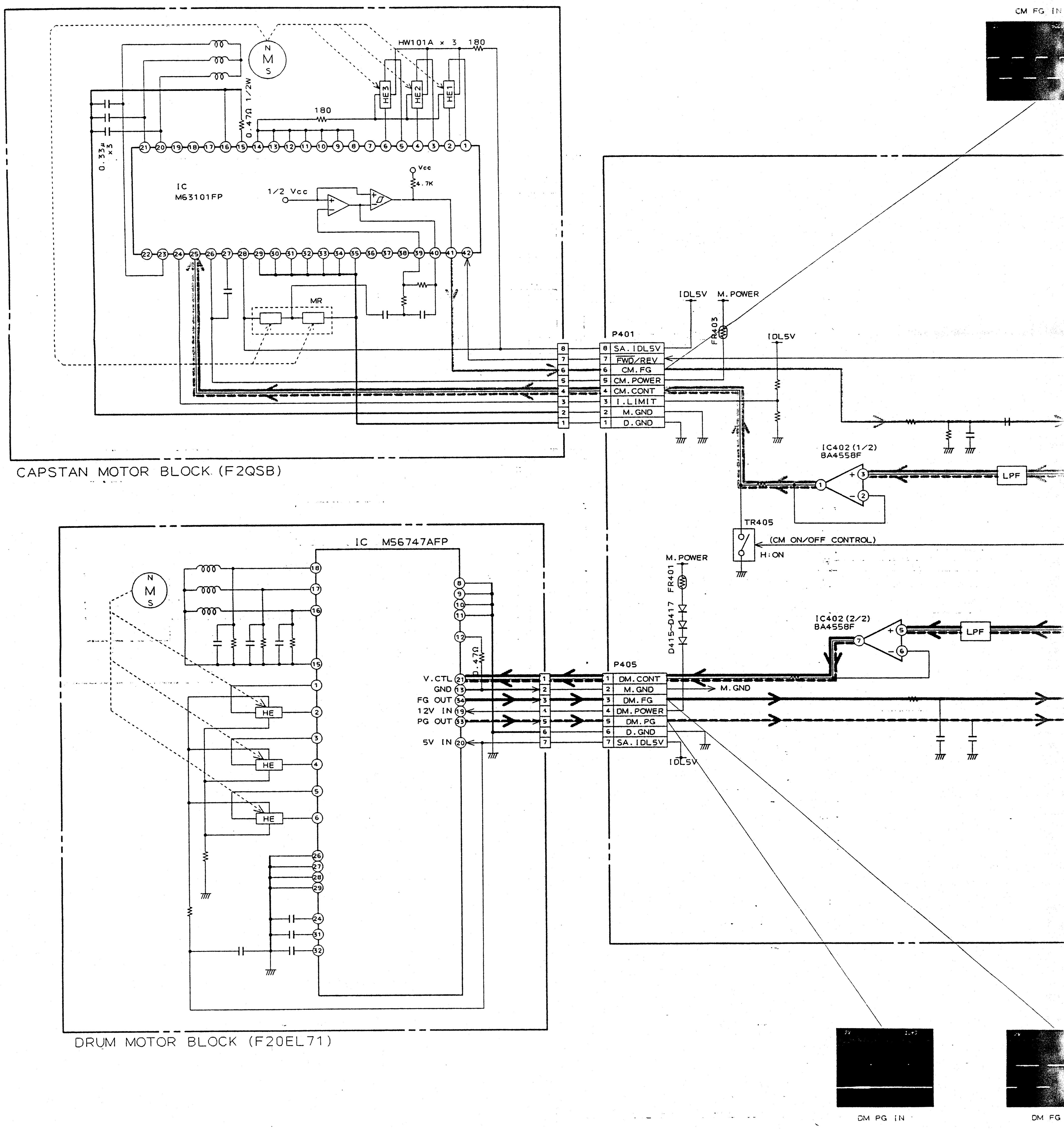

E
F
G
H
I
J
1
2
3
4
5
6
7
8
IF601 (VIF PCB)
AGC OUT
IF IN
AFT. OUT
BG/L
BGL/L. VL
TU601 (TUNER BLOCK)
AGC IN
IF OUT
AFT
PB
VL/SDA
VH/SCL
UHF/AS
MB
TU. 2
TU. V
EA-D ONLY
L605
AL9V
L604
AL5V
EXCEPT EA-D
LPF
TR608
+32V
JS611
D614
15V
1. 2K (1/4W)
D605
TR610
CURRENT CONT
82 (1/4W)
+38V
IC601 μPC574J
EXCEPT EA-D
JS602
JS601
I2. SDA
I2. SCL
TR605
L:ON
UHF
VL
VH
TR604
TR603
TR606
TR607
SEG-N ONLY
L603
AL5V
TR614
TR617
BAND. A
BAND. B
TU. PWM
BGL/L. VL
BG/L
AFT. E
OSD. CS
FLD. DATA
SYS. DATA
SYS. CLK
FLD. STB
REMOCON
DAVN
I2. SCL
I2. SDA
IC401 M37777MAA VXHSY (SERVO/SYSTEM CONTROL MI COM)
RESET
TP402
IC402 S-806H
BACK UP VOLTAGE DETECT
200 Ω
SUPER CAPACITOR 47000 μ
BU5V
IDL5V
TR411
TR412
P. DOWN
WS/DEC. CTL
AL9V
10V
TR213
H:ON
10K
4. 5V
SHORT
POWER SUPPLY CONTROL
AL
TV/VCR
IDL5V
TR602
TR601
MODU
EK-N, OEM ONLY
L602
EXCEPT OEM. EK-N
CALL. REM. ON/OFF
CALL. REM (SWEEP SIGNAL)
CALL REMO SIGNAL AMP
A. SWP
A. REC. S
A. MUTE
T. MUTE
I/O. CONT. A
I/O. CONT. B
NT. SP
AUDIO CIRCUIT CONTROL
X401 16MHz
X402 32. 768KHz
M. POWER
FR402
IC403 BA6956
BI-DIRECTIONAL MOTOR DRIVE
LM+
LM-
LOADING MOTOR
LM. FWD
LM. REV
TR406
8. 2V
TRQ UP
RSW1-3
61-63
MODE SW MECHA. POSITION DETECT
MECHA. BLK
SW401
REC SAFETY SW (ON → REC ENABLE)
REC SAF
TR404
D404
+5V
TRP (TAKE UP REEL PULSE)
TR403
D403
SRP (SUPPLY REEL PULSE)
TR402
ES (END SENSOR)
D402
SS (START SENSOR)
TR401
C. K. DET
V. REC. VOL
V. REC. S
VP
C. ROT
V. SWP
CDC
SECAM
SEC. MEC
S. DET
VIDEO CIRCUIT CONTROL
HiFi. ENV. DET
V. ENV. DET
HEAD. CTL
COMP. OUT
CM. STOP
F/R
CM. PWM
DM. PWM
C. SYNC
CM. FG
DM. PG
DM. FG
CTL-
CTL+
SERVO CONTROL

MODE DETECT SWITCH CODE TABLE

MODE / OUT PUT	EJECT	UNLOADED	POWER OFF (WITH CASSETTE)	REVIEW	PAUSE /SLOW	STOP /PLAY & CUE	FF & RWD
RSW 1	L	H	L	H	L	H	H
RSW 2	L	H	H	H	H	L	L
RSW 3	H	L	L	L	H	H	H

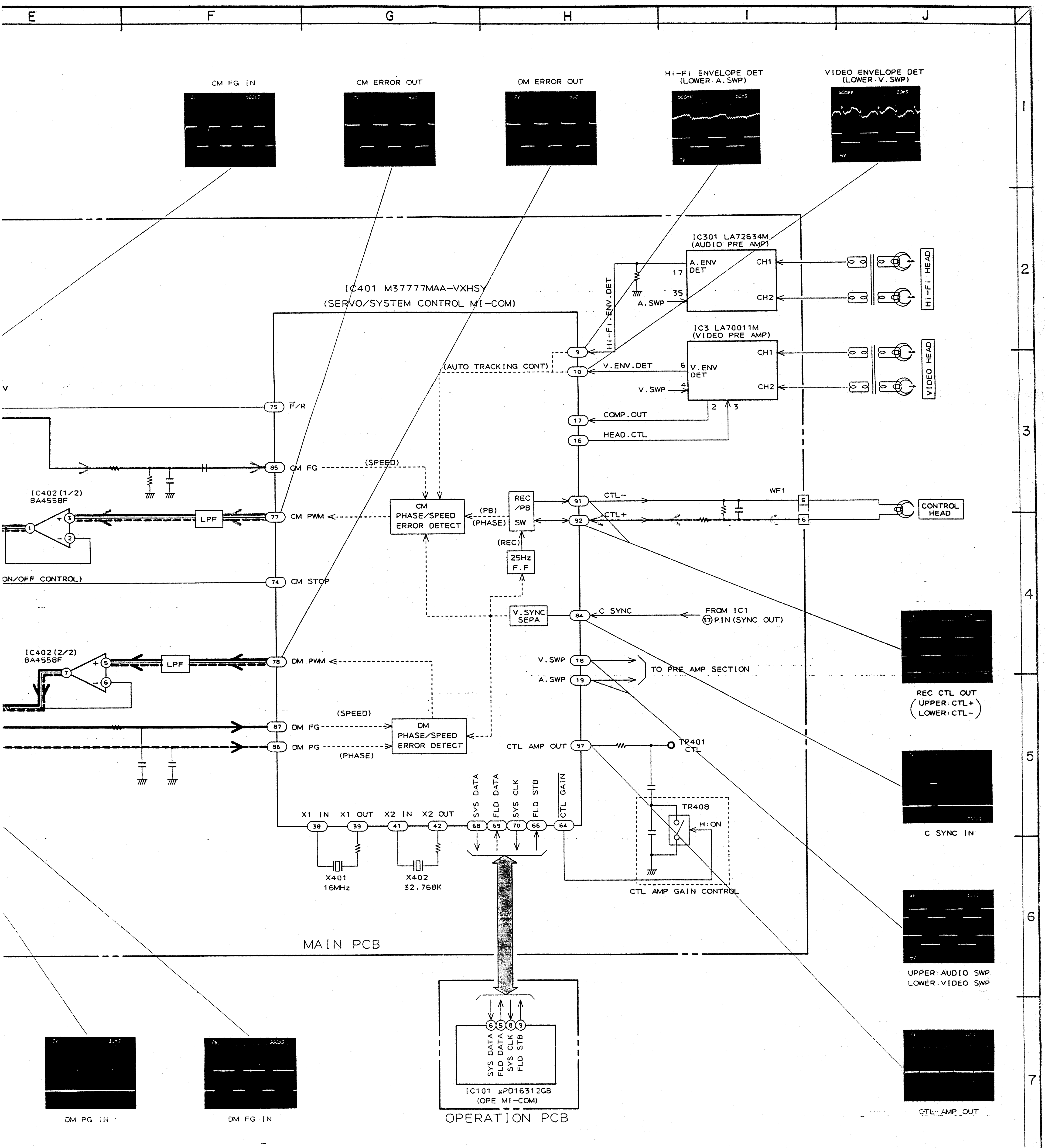
OPERATION & SYSCON BLOCK DIAGRAM

NO. 4-3 V128553M


CM FG IN
HW101A × 3
180
HE3
HE2
HE1
0.47Ω 1/2W
0.33µ ×3
IC
M63101FP
1/2 Vcc
Vcc
4.7K
MR
P401
8 SA.IDL5V
7 FWD/REV
6 CM.FG
5 CM.POWER
4 CM.CONT
3 I.LIMIT
2 M.GND
1 D.GND
IDL5V
M.POWER
FR403
IC402(1/2)
BA4558F
LPF
TR405
(CM ON/OFF CONTROL)
H:ON
CAPSTAN MOTOR BLOCK (F2QSB)
IC M56747AFP
HE
0.47Ω
V.CTL
GND
FG OUT
12V IN
PG OUT
5V IN
M.POWER
FR401
D415-D417
IC402(2/2)
BA4558F
P405
1 DM.CONT
2 M.GND
3 DM.FG
4 DM.POWER
5 DM.PG
6 D.GND
7 SA.IDL5V
M.GND
IDL5V
DRUM MOTOR BLOCK (F20EL71)
DM PG IN
DM FG

NOTE PHOTOGRAPHS EXCEPT [REC CTL OUT] WERE TAKEN DURING PB MODE.
EXCEPT [REC CTL OUT, ENVELOPE DET, SWP].
PHOTOGRAPH'S SECOND LINE FROM THE BOTTOM IS DC 0V.

:CA
CA
:DR
:DR


E
F
G
H
I
J
CM FG IN
CM ERROR OUT
DM ERROR OUT
Hi-Fi ENVELOPE DET
(LOWER: A. SWP)
VIDEO ENVELOPE DET
(LOWER: V. SWP)
1
2
3
4
5
6
7
IC301 LA72634M
(AUDIO PRE AMP)
A. ENV DET
17
35
A. SWP
CH1
CH2
Hi-Fi HEAD
Hi-Fi. ENV. DET
IC401 M37777MAA-VXHSY
(SERVO/SYSTEM CONTROL MI-COM)
IC3 LA70011M
(VIDEO PRE AMP)
V. ENV DET
6
4
V. SWP
2
3
VIDEO HEAD
(AUTO TRACKING CONT)
9
10
V. ENV. DET
75
F/R
17
COMP. OUT
16
HEAD. CTL
85
CM FG
(SPEED)
IC402 (1/2)
BA4558F
1
2
3
LPF
77
CM PWM
CM
PHASE/SPEED
ERROR DETECT
(PB)
(PHASE)
REC
/PB
SW
(REC)
25Hz
F. F
91
92
CTL−
CTL+
WF1
5
6
CONTROL
HEAD
ON/OFF CONTROL)
74
CM STOP
V. SYNC
SEPA
84
C SYNC
FROM IC1
57 PIN (SYNC OUT)
IC402 (2/2)
BA4558F
5
6
7
LPF
78
DM PWM
V. SWP
18
A. SWP
19
TO PRE AMP SECTION
(SPEED)
87
DM FG
86
DM PG
(PHASE)
DM
PHASE/SPEED
ERROR DETECT
CTL AMP OUT
97
TP401
CTL
SYS DATA
FLD DATA
SYS CLK
FLD STB
CTL GAIN
X1 IN
X1 OUT
X2 IN
X2 OUT
38
39
41
42
68
69
70
66
64
X401
16MHz
X402
32.768K
TR408
H: ON
CTL AMP GAIN CONTROL
MAIN PCB
REC CTL OUT
(UPPER: CTL+
LOWER: CTL−)
C SYNC IN
UPPER: AUDIO SWP
LOWER: VIDEO SWP
6
5
8
9
SYS DATA
FLD DATA
SYS CLK
FLD STB
IC101 μPD16312GB
(OPE MI-COM)
OPERATION PCB
DM PG IN
DM FG IN
CTL AMP OUT

JT]

DET. SWP].

1 THE

━━━━━━ : CAPSTAN MOTOR SPEED CONTROL LINE

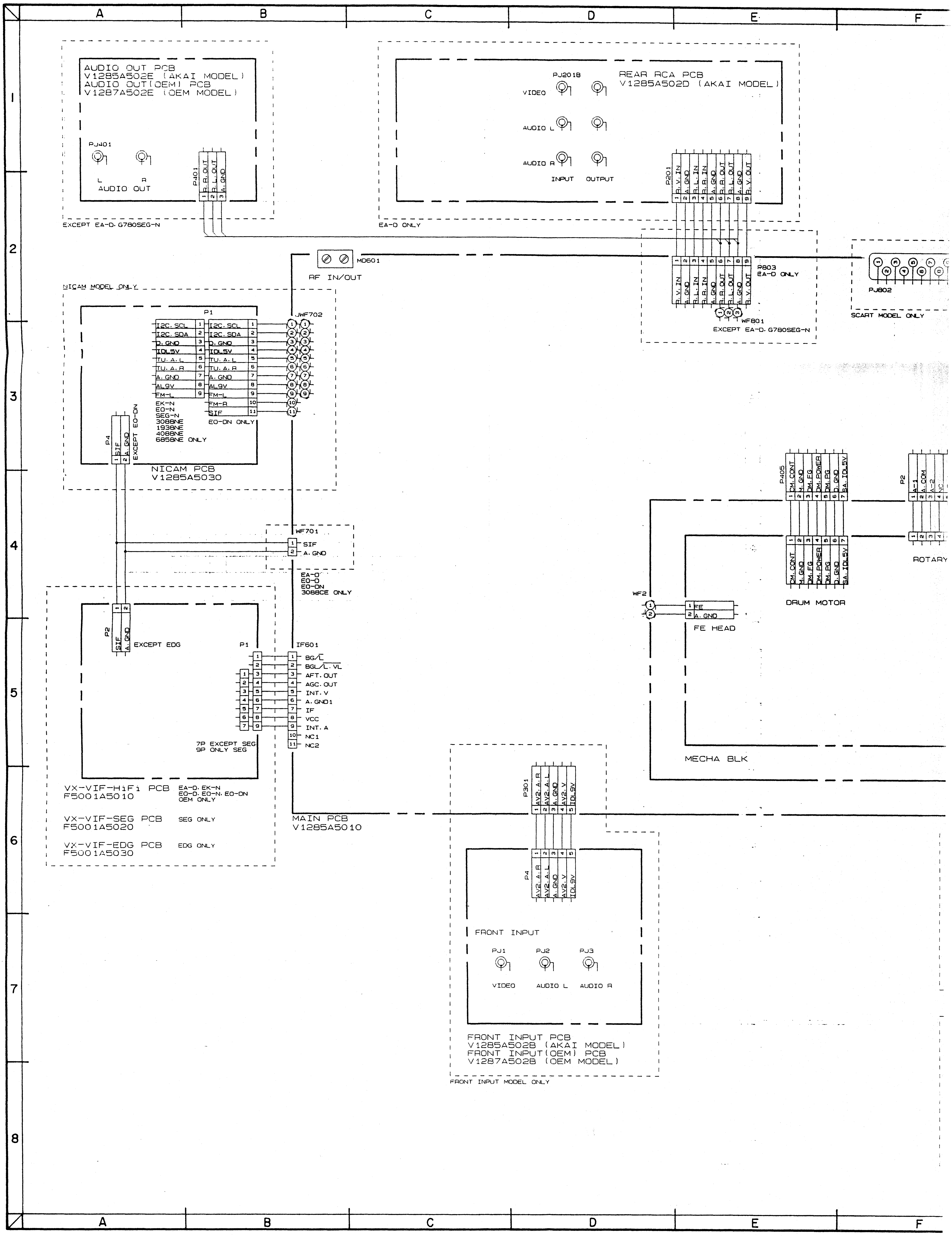
╍╍╍╍╍╍ : CAPSTAN MOTOR PHASE CONTROL LINE

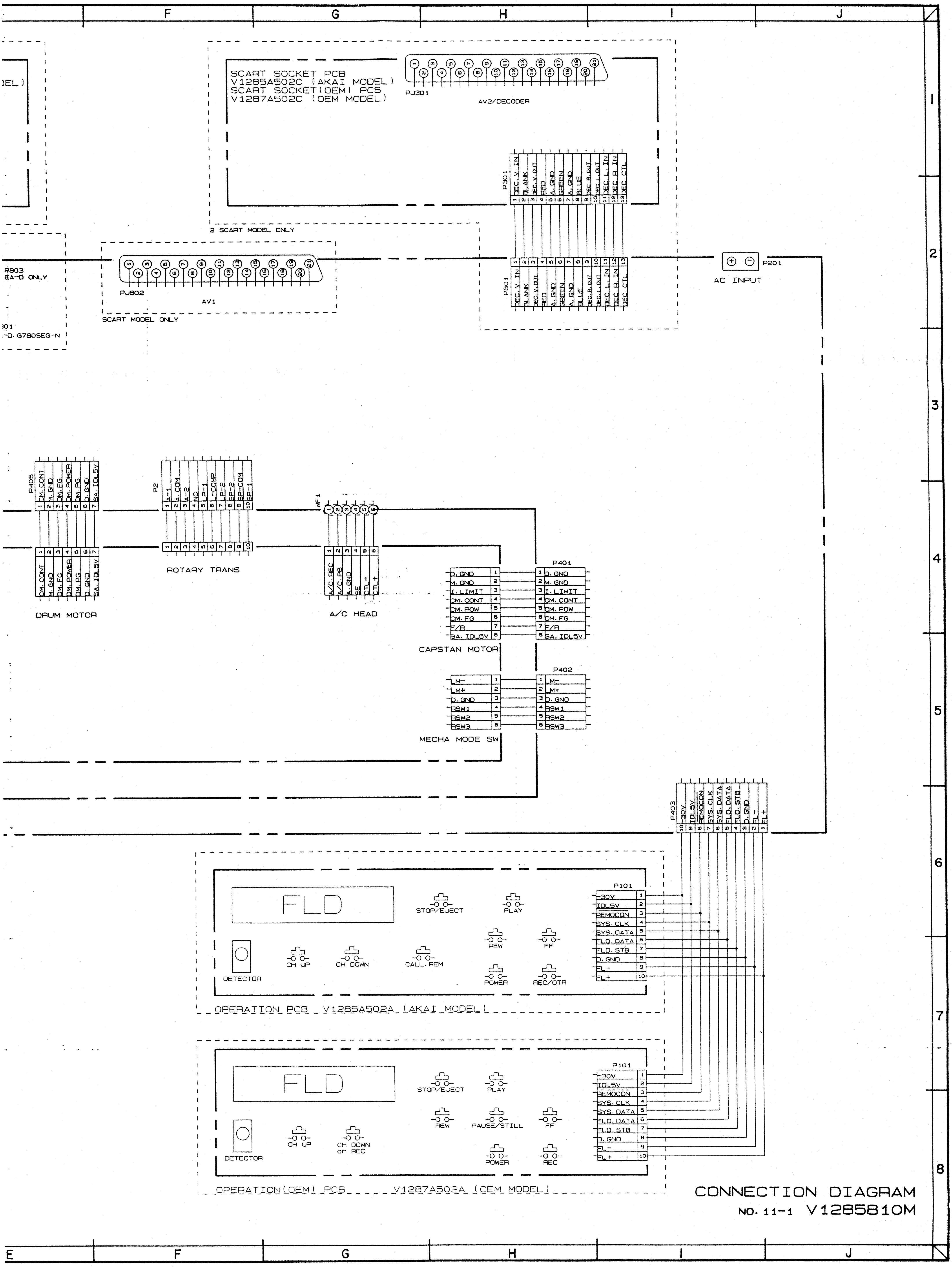
━━━━━━ : DRUM MOTOR SPEED CONTROL LINE

━ ━ ━ ━ : DRUM MOTOR PHASE CONTROL LINE

SERVO
BLOCK DIAGRAM
NO. 4-4 V128554M

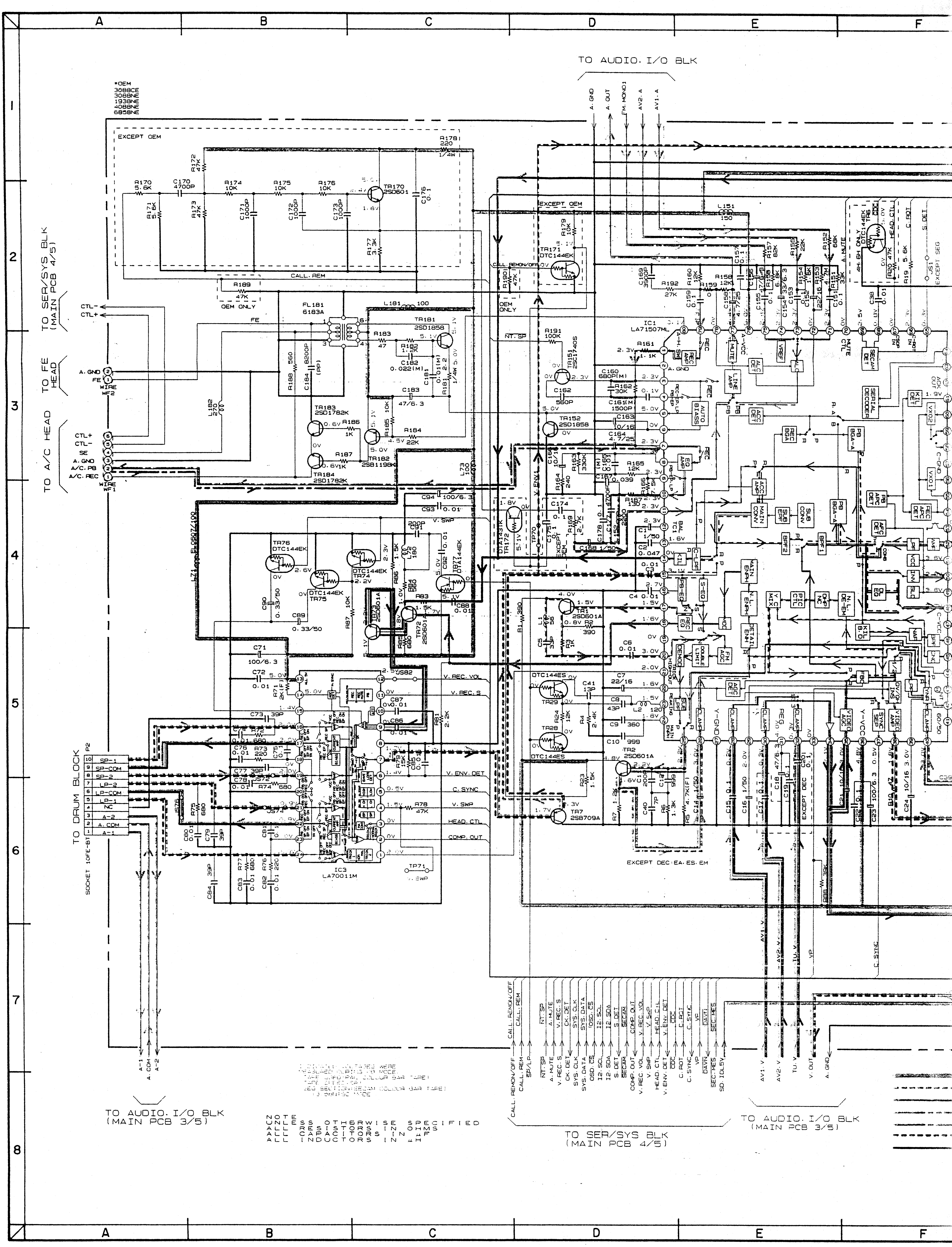
8


A
B
C
D
E
F
1
2
3
4
5
6
7
8
AUDIO OUT PCB
V1285A502E (AKAI MODEL)
AUDIO OUT(OEM) PCB
V1287A502E (OEM MODEL)
PJ401
L
R
AUDIO OUT
P401
R. R. OUT
R. L. OUT
A. GND
EXCEPT EA-D, G780SEG-N
PJ2018
VIDEO
AUDIO L
AUDIO R
INPUT
OUTPUT
REAR RCA PCB
V1285A502D (AKAI MODEL)
P201
R. V. IN
A. GND
R. L. IN
R. R. IN
A. GND
R. R. OUT
R. L. OUT
A. GND
R. V. OUT
EA-D ONLY
MD601
RF IN/OUT
P803
EA-D ONLY
WF801
EXCEPT EA-D, G780SEG-N
PJ802
SCART MODEL ONLY
NICAM MODEL ONLY
P1
I2C. SCL
I2C. SDA
D. GND
IDL5V
TU. A. L
TU. A. R
A. GND
AL9V
FM-L
FM-R
SIF
EK-N
EO-N
SEG-N
3088NE
1938NE
4088NE
6858NE ONLY
EO-DN ONLY
JWF702
P4
SIF
A. GND
EXCEPT EO-DN
NICAM PCB
V1285A5030
P405
DM. CONT
M. GND
DM. FG
DM. POWER
DM. PG
D. GND
SA. IDL5V
P2
A-1
A. COM
A-2
NC
ROTARY
WF701
SIF
A. GND
EA-D
EO-D
EO-DN
3088CE ONLY
WF2
FE
A. GND
FE HEAD
DRUM MOTOR
P2
SIF
A. GND
EXCEPT EDG
P1
IF601
BG/L̄
BGL/L̄. VL
AFT. OUT
AGC. OUT
INT. V
A. GND1
IF
VCC
INT. A
NC1
NC2
7P EXCEPT SEG
9P ONLY SEG
MECHA BLK
VX-VIF-HiFi PCB
F5001A5010
EA-D, EK-N
EO-D, EO-N, EO-DN
OEM ONLY
VX-VIF-SEG PCB
F5001A5020
SEG ONLY
VX-VIF-EDG PCB
F5001A5030
EDG ONLY
MAIN PCB
V1285A5010
P301
AV2. A. R
AV2. A. L
A. GND
AV2. V
IDL9V
P4
FRONT INPUT
PJ1
PJ2
PJ3
VIDEO
AUDIO L
AUDIO R
FRONT INPUT PCB
V1285A502B (AKAI MODEL)
FRONT INPUT(OEM) PCB
V1287A502B (OEM MODEL)
FRONT INPUT MODEL ONLY


F
G
H
I
J
1
2
3
4
5
6
7
8
E
)EL)
SCART SOCKET PCB
V1285A502C (AKAI MODEL)
SCART SOCKET(OEM) PCB
V1287A502C (OEM MODEL)
PJ301
AV2/DECODER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
P301
1 DEC. V. IN
2 BLANK
3 DEC. V. OUT
4 RED
5 A. GND
6 GREEN
7 A. GND
8 BLUE
9 DEC. R. OUT
10 DEC. L. OUT
11 DEC. L. IN
12 DEC. R. IN
13 DEC. CTL
2 SCART MODEL ONLY
P803
EA-D ONLY
)01
-D. G780SEG-N
PJ802
AV1
SCART MODEL ONLY
P801
1 DEC. V. IN
2 BLANK
3 DEC. V. OUT
4 RED
5 A. GND
6 GREEN
7 A. GND
8 BLUE
9 DEC. R. OUT
10 DEC. L. OUT
11 DEC. L. IN
12 DEC. R. IN
13 DEC. CTL
P201
AC INPUT
P405
1 CM. CONT
2 M. GND
3 DM. FG
4 DM. POWER
5 DM. PG
6 D. GND
7 SA. IDL5V
DRUM MOTOR
P2
1 A-1
2 A. COM
3 A-2
4 NC
5 P-1
6 -COMP
7 P-2
8 SP-2
9 SP-COM
10 SP-1
ROTARY TRANS
WF1
1 A/C. REC
2 A/C. PB
3 A. GND
4 SE
5 CTL-
6 CTL+
A/C HEAD
P401
1 D. GND
2 M. GND
3 I. LIMIT
4 CM. CONT
5 CM. POW
6 CM. FG
7 F/R
8 SA. IDL5V
CAPSTAN MOTOR
P402
1 M-
2 M+
3 D. GND
4 RSW1
5 RSW2
6 RSW3
MECHA MODE SW
P403
10 -30V
9 IDL5V
8 REMOCON
7 SYS. CLK
6 SYS. DATA
5 FLD. DATA
4 FLD. STB
3 D. GND
2 FL-
1 FL+
FLD
STOP/EJECT
PLAY
REW
FF
CH UP
CH DOWN
CALL. REM
POWER
REC/OTR
DETECTOR
P101
1 -30V
2 IDL5V
3 REMOCON
4 SYS. CLK
5 SYS. DATA
6 FLD. DATA
7 FLD. STB
8 D. GND
9 FL-
10 FL+
OPERATION PCB V1285A502A (AKAI MODEL)
FLD
STOP/EJECT
PLAY
REW
PAUSE/STILL
FF
CH UP
CH DOWN
or REC
POWER
REC
DETECTOR
P101
1 -30V
2 IDL5V
3 REMOCON
4 SYS. CLK
5 SYS. DATA
6 FLD. DATA
7 FLD. STB
8 D. GND
9 FL-
10 FL+
OPERATION(OEM) PCB V1287A502A (OEM MODEL)

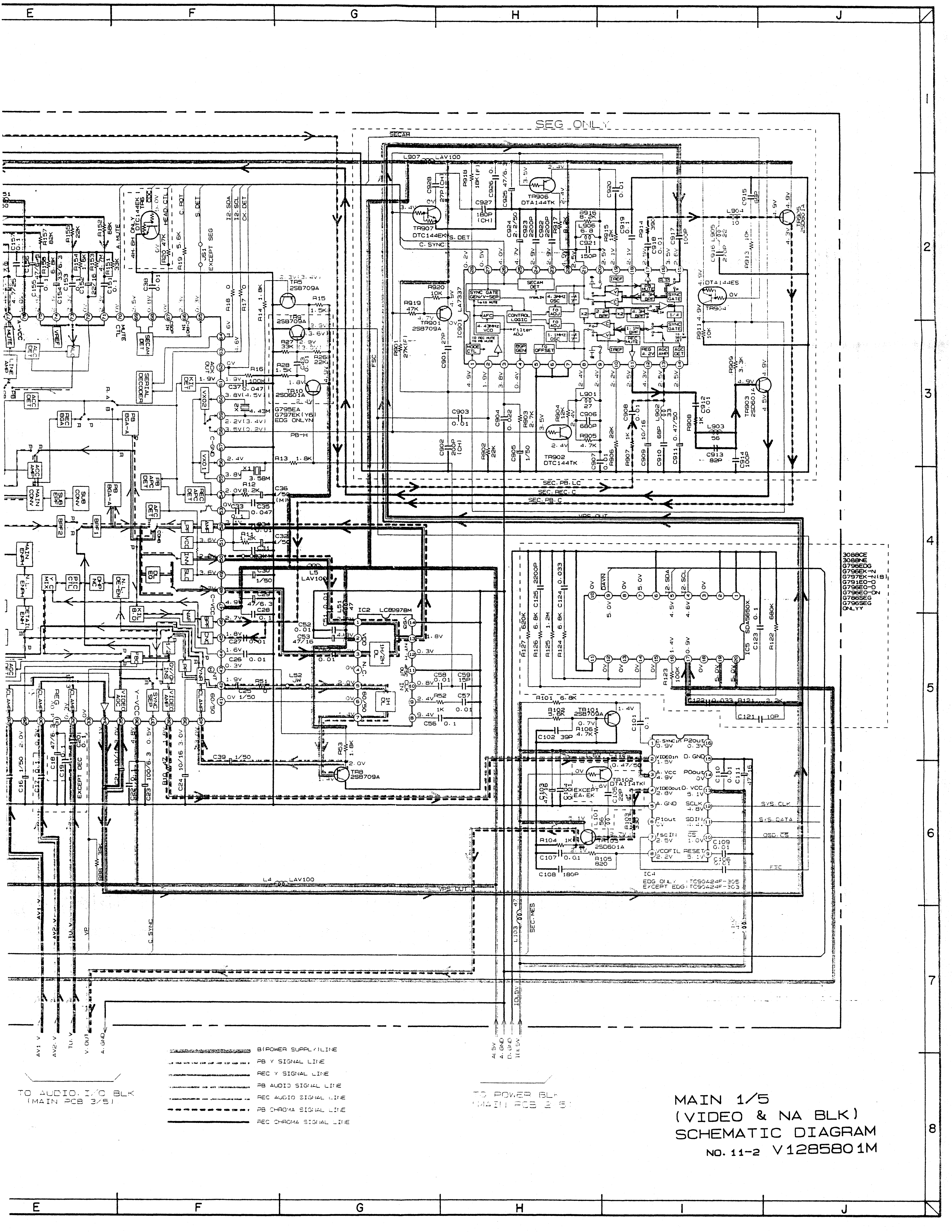
CONNECTION DIAGRAM

NO. 11-1 V1285810M


A
B
C
D
E
F
1
2
3
4
5
6
7
8
TO AUDIO. I/O BLK
A. GND
A. OUT
FM. MONO1
AV2. A
AV1. A
*OEM
3088CE
3088NE
1938NE
4088NE
6858NE
EXCEPT OEM
R178 220 1/4W
R172 47K
R170 5.6K
C170 4700P
R174 10K
R175 10K
R176 10K
TR170 2SD601
C175 0.1
R171 5.6K
R173 47K
C171 1000P
C172 1000P
C173 1000P
R177 3.3K
CALL. REM
R189 47K
OEM ONLY
TO SER/SYS BLK (MAIN PCB 4/5)
CTL-
CTL+
FE
FL181 6183A
L181 100
TR181 2SD1858
R183 47
R182 1.5K
C182 0.022(M)
C181 0.01(M)
R181 2.2 1/4W
C183 47/6.3
R188 560
C184 8200P (PP)
TO FE HEAD
A. GND
FE
WIRE WF2
L182 270
TO A/C HEAD
CTL+
CTL-
SE
A. GND
A/C. PB
A/C. REC
WIRE WF1
TR183 2SD1782K
R186 1K
R185 10K
R184 22K
R187 1K
TR182 2SB1198K
TR184 2SD1782K
L73 100
C94 100/6.3
C93 0.01
V. SWP
C91 200P
L72 180
L71 100
TR76 DTC144EK
TR74 DTC144EK
TR75 DTC144EK
TR77 DTA144EK
C92 0.01
R86 1.5K
R84 560
R83
C90 0.33/50
C89 0.33/50
R87 10K
TR73 2SD601A
TR72 2SD601A
R85 680
C88 0.01
C71 100/6.3
C72 0.01
R71 2K(F)
C73 39P
C76 0.01
R73 220
C75 0.01
C77 39P
C78 0.01
R74 680
R75 680
C80 0.01
C79 39P
C81
C84 39P
C83 0.01
R77 680
C82 0.01
R76 220
IC3 LA70011M
C87 0.01
C86 0.01
R81 2.2K
R79 15K
C85 0.01
R78 47K
V. REC. VOL
V. REC. S
V. ENV. DET
C. SYNC
V. SWP
HEAD. CTL
COMP. OUT
TP71
TO DRUM BLOCK
P2
SP-1
SP-COM
SP-2
LP-2
LP-COM
LP-1
NC
A-2
A. COM
A-1
SOCKET 10FE-BT
A-1
A. COM
A-2
TO AUDIO. I/O BLK (MAIN PCB 3/5)
EXCEPT OEM
TR171 DTC144EK
R179 10K
CALL. REMON/OFF
R190 47K
OEM ONLY
NT. SP
R191 100K
TR151 2SC1740S
C162 560P
TR152 2SD1858
V. ENV
TR172 DTA144EK
TP70
C174
C175 0.1
EXCEPT OEM
R169 2.2K
C178
C177 4700P
R152 2200
C158 1/50
R163 330K
R164 240
C165 0.01
R165 12K
C167 0.039
R166
R167 1.5K
L151 150
C169 390P
R192 27K
R160 12K
C159 0.1
R159
R158 12K
C156 4.7/25
C157 0.1
C155 47/6.3
R156 6.8K
R157 82K
C154 33/6.3
C153 0.1
R155 22K
R154 1.5K
C152 22/16
R153
R151 33K
C151 0.1
R152 68K
A. MUTE
IC1 LA71507ML
R161 1.1K
C160 680P(M)
R162 30K
C161(M) 1500P
C163 0/16
C164 4.7/25
REC AMP
MUTE
A-VCC
VREF
ALC DET
LINE AMP
AUTO BIAS
MUTE CTL
SECAM DET
SERIAL DECODER
EQ AMP
ACC AMP
REC BGA
PB BGA-A
MAIN CONV
SUB CONV
SUB BPF
BPF2
PB BGA-A
BPF1
REC APC DET
AFC DET
BAL TC1
C1 1/50
C2 0.047
C3 0.01
C4 0.01
KIL
C-CLP
PB-EQ
S-EQ
MAIN EMPH
N.L. EMPH
DETAIL ENH
Y/C MIX
PIC CTL
DRP NC
N.L. DE-EM
KIL B.O
TR1 2SD601A
L1 56
R1 390
C5 33P
R3 1K
R2 390
C6 0.01
REC EQ
FM AGC
DEMOD
VIDEO AGC
Y-VCC
SYNC SEP
VIDEO AMP
CLAMP
C7 22/16
C41 13P
C8 43P
L2 120
C9 360
C10 999
TR29 DTC144ES
TR28 DTC144ES
R24 12K
R4 2.4K
TR2 2SD601A
R23 1.5K
TR7 2SB709A
R7 1.2K
C40 7P
C11 200P
C12
R6 1.3K
R5 4.7K(F)
C14 1/50
C15 0.1
C16 1/50
C17 0.1
C18 47/6.3
C19
C20 0.1
EXCEPT DEC
C21 10/16
C22
C23 100/6.3
C24 10/16
EXCEPT DEC·EA·ES·EM
4H. 6H ONLY
DTC144EK
R20 47K
R19 5.6K
JS1
EXCEPT SEG
HEAD. CTL
C. ROT
S. DET
AV1. V
AV2. V
TU. V
VP
C. SYNC
R88 33K
CALL. REMON/OFF
CALL. REM
SP/LP
NT. SP
A. MUTE
V. REC. S
CK. DET
SYS. CLK
SYS. DATA
OSD. CS
I2. SCL
I2. SDA
S. DET
SECAM
COMP. OUT
V. REC. VOL
V. SWP
HEAD. CTL
V. ENV. DET
CDC
C. ROT
C. SYNC
VP
DAVN
SEC. RES
SD. IDL5V
TO SER/SYS BLK (MAIN PCB 4/5)
AV1. V
AV2. V
TU. V
V. OUT
A. GND
TO AUDIO. I/O BLK (MAIN PCB 3/5)

INDICATED VOLTAGES WERE MEASURED DURING PB MODE.
(TAPE USED: PAL COLOUR BAR TAPE)
(TAPE SPEED: SP)
(SEC SECTION: SECAM COLOUR BAR TAPE)
(3.58 NTSC MODE)

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN µF
ALL INDUCTORS IN µH

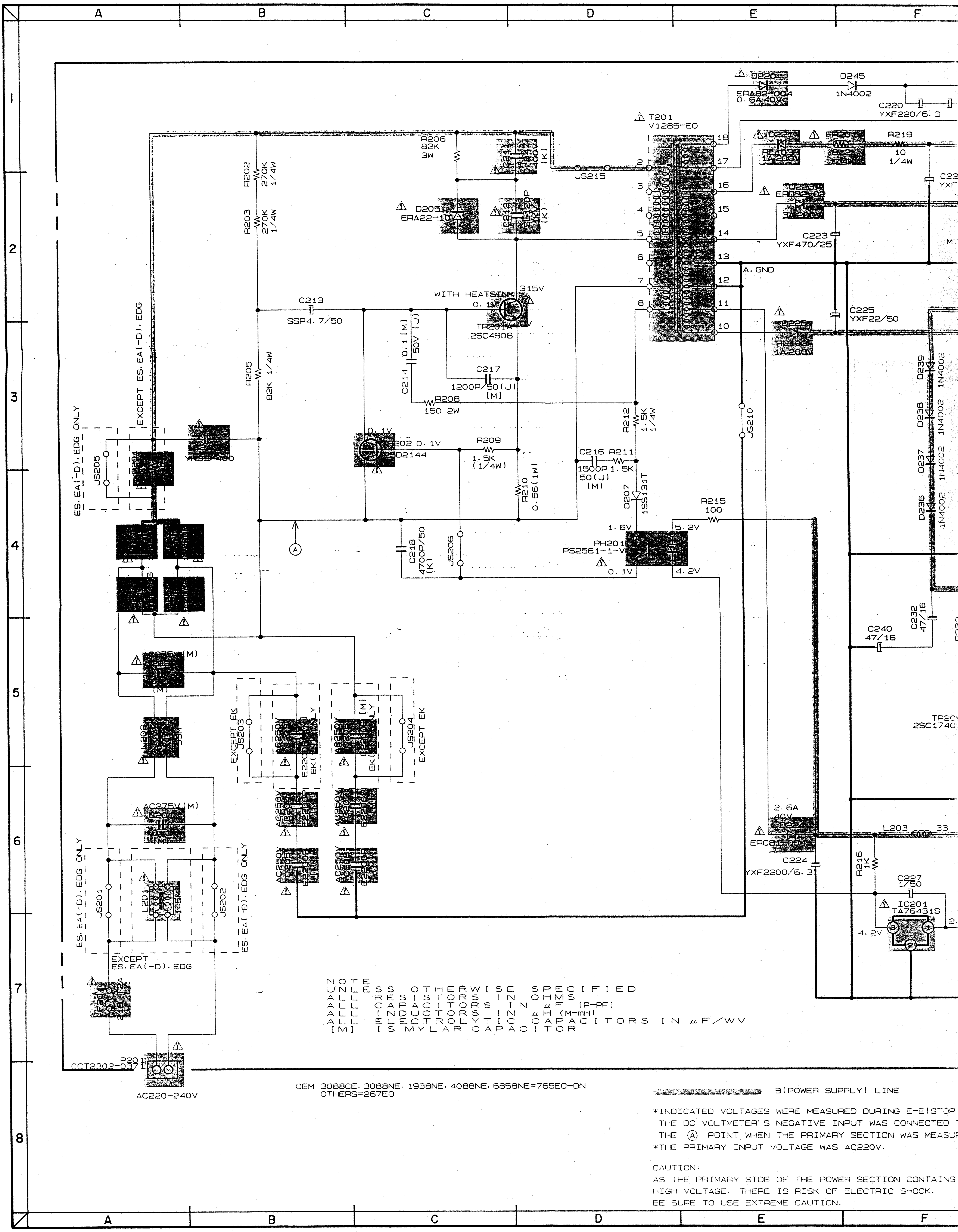

E
F
G
H
I
J
1
2
3
4
5
6
7
8
SEG ONLY
SECAM
L907 LAV100
TR907 DTC144EK
TR906 DTA144TK
TR901 2SB709A
TR902 DTC144TK
TR903 2SD601A
TR904 DTA144ES
TR905 2SD601A
IC901 LA7337
SYNC GATE GEN/V-SEP
SECAM DET
4.3MHz OSC
CONTROL LOGIC
AFC
4.43MHz VCO
MODE CTL
BGP GEN
f0 OFFSET
1.1MHz OSC
Filter ADJ
IREF
REF MUTE
REG 4.2V
AGC AMP
AGC DET
SYNC GATE
C. SYNC
S. DET
FSC
SEC. PB. LC
SEC. REC. C
SEC. PB. C
VPS OUT
TR5 2SB709A
TR9 2SB709A
TR10 2SD601A
TR6 DTC144EK
4H 6H ONLY
A. MUTE
HEAD CTL
C. ROT
S. DET
I2. SDA
I2. SCL
CK. DET
EXCEPT SEG
SECAM DET
SERIAL DECODER
MUTE CTL
ACK DET
ACC DET
REC BGA
PB BGA-A
PB BGA-B
ACC AMP
MAIN CONV
SUB EPF
SUB CONV
PB APC DET
REC APC DET
AFC DET
BPF 1
BPF 2
MAIN EMPH
N.L. EMPH
N.L. DE-EM
Y/C MIX
PIC CTL
DETAIL ENH
X2 4.43M
X1 3.58M
G795EA G797EK(Y6) EDG ONLYN
L5 LAV100
IC2 LC89978M
1H/2H DL
L52 JW
TR8 2SB709A
CLAMP
REG
Y-VCC
A-VCC
VIDEO AGC
SYNC SEP
VIDEO AMP
EXCEPT DEC
L4 LAV100
VPS OUT
C. SYNC
AV1 V
AV2 V
TU. V
VP
SEC. RES
L103
3088CE
3088NE
G796EDG
G796EK-N
G797EK-N(8)
G791E0-0
G796E0-0
G796E0-0N
G786SEG
G796SEG
ONLYY
IC5 SDA5650X
R101 6.8K
TR101 2SB709A
TR102 DTA114TK
TR103 2SD601A
EXCEPT EA. EK
C. SYNCin
P2out
VIDEOin
D. GND
A. Vcc
P0out
VIDEOout
D. VCC
A. GND
SCLK
P1out
SDIN
fSCIN
OSD
VCOFIL
RESET
SYS. CLK
SYS. DATA
OSD. CS
REC
IC4
EDG ONLY : TC90424F-30E
EXCEPT EDG : TC90424F-303
AV1 V
AV2 V
TU. V
V. OUT
A. GND
A. 5V
A. GND
A. GND
10.5V

TO AUDIO. I/O BLK
(MAIN PCB 3/5)

TO POWER BLK
(MAIN PCB 2/5)

B(POWER SUPPLY)LINE
PB Y SIGNAL LINE
REC Y SIGNAL LINE
PB AUDIO SIGNAL LINE
REC AUDIO SIGNAL LINE
PB CHROMA SIGNAL LINE
REC CHROMA SIGNAL LINE

MAIN 1/5
(VIDEO & NA BLK)
SCHEMATIC DIAGRAM
NO. 11-2 V1285801M



A
B
C
D
E
F
1
2
3
4
5
6
7
8
T201
V1285-E0
D220
ERA82-004
0.6A40V
D245
1N4002
C220
YXF220/6.3
D222
1A200V
ER201
R219
10
1/4W
D223
3A200V
C223
YXF470/25
C225
YXF22/50
D225
1A200V
A.GND
R206
82K
3W
C211
400V
(K)
D205
ERA22-10
C212
SL120P
1KV
(K)
R202
270K
1/4W
R203
270K
1/4W
JS215
WITH HEATSINK
315V
C213
SSP4.7/50
0.1V
TR201A
2SC4908
0.1(M)
50V(J)
C214
C217
1200P/50(J)
(M)
R208
150 2W
R205
82K 1/4W
R212
1.5K
1/4W
JS210
0.1V
TR202 0.1V
2SD2144
R209
1.5K
(1/4W)
C216 R211
1500P 1.5K
50(J)
(M)
D207
1SS131T
R210
0.56(1W)
R215
100
C218
4700P/50
(K)
JS206
1.6V
5.2V
PH201
PS2561-1-V
0.1V
4.2V
D239
1N4002
D238
1N4002
D237
1N4002
D236
1N4002
C232
47/16
C240
47/16
TR20
2SC1740
YK
ES.EA(-D).EDG ONLY
EXCEPT ES.EA(-D).EDG
JS205
AC275V(M)
(M)
EXCEPT EK
JS203
AC250V
EK ONLY
JS204
EXCEPT EK
L202
2.6A
40V
D226
ERC81-004
C224
YXF2200/6.3
L203
33
R216
1K
C227
1/50
IC201
TA76431S
4.2V
AC275V(M)
JS201
L201
JS202
ES.EA(-D).EDG ONLY
EXCEPT
ES.EA(-D).EDG
F201
P201
CCT2302-0371
AC220-240V

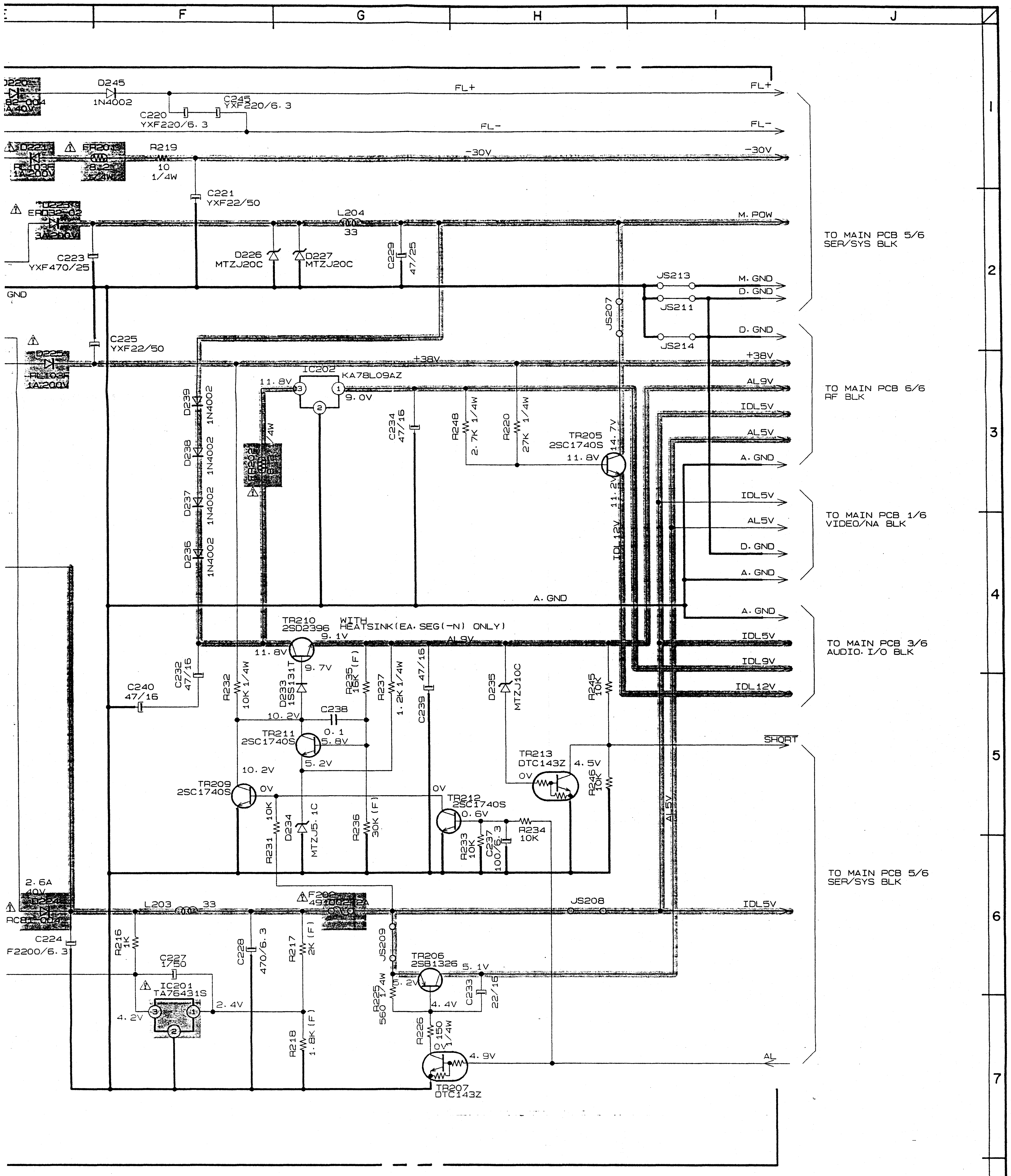
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P-PF)
ALL INDUCTORS IN μH (M-mH)
ALL ELECTROLYTIC CAPACITORS IN μF/WV
[M] IS MYLAR CAPACITOR

OEM 3088CE, 3088NE, 1938NE, 4088NE, 6858NE=765E0-DN
OTHERS=267E0

▨ B(POWER SUPPLY) LINE

*INDICATED VOLTAGES WERE MEASURED DURING E-E(STOP
THE DC VOLTMETER'S NEGATIVE INPUT WAS CONNECTED
THE Ⓐ POINT WHEN THE PRIMARY SECTION WAS MEASUR
*THE PRIMARY INPUT VOLTAGE WAS AC220V.

CAUTION:
AS THE PRIMARY SIDE OF THE POWER SECTION CONTAINS
HIGH VOLTAGE. THERE IS RISK OF ELECTRIC SHOCK.
BE SURE TO USE EXTREME CAUTION.



E
F
G
H
I
J
1
2
3
4
5
6
7
8
D245
1N4002
C245
YXF220/6.3
C220
YXF220/6.3
FL+
FL-
R219
10
1/4W
-30V
C221
YXF22/50
L204
33
M.POW
C223
YXF470/25
D226
MTZJ20C
D227
MTZJ20C
C229
47/25
GND
JS213
M.GND
D.GND
JS211
JS207
JS214
TO MAIN PCB 5/6
SER/SYS BLK
C225
YXF22/50
+38V
IC202
KA78L09AZ
11.8V
9.0V
AL9V
IDL5V
AL5V
A.GND
TO MAIN PCB 6/6
RF BLK
D239
D238
D237
D236
1N4002
C234
47/16
R248
2.7K 1/4W
R220
27K 1/4W
TR205
2SC1740S
14.7V
11.8V
11.2V
IDL12V
TO MAIN PCB 1/6
VIDEO/NA BLK
TR210
2SD2396
WITH HEATSINK(EA·SEG(-N) ONLY)
9.1V
9.7V
TO MAIN PCB 3/6
AUDIO·I/O BLK
IDL9V
C232
47/16
C240
47/16
R232
10K 1/4W
D233
1SS131T
R235
16K (F)
R237
1.2K 1/4W
C239
47/16
D235
MTZJ10C
R245
10K
10.2V
C238
0.1
TR211
2SC1740S
5.8V
5.2V
TR213
DTC143Z
4.5V
0V
SHORT
R246
10K
TR209
2SC1740S
R231
10K
D234
MTZJ5.1C
R236
30K (F)
TR212
2SC1740S
0.6V
R233
10K
C237
100/6.3
R234
10K
TO MAIN PCB 5/6
SER/SYS BLK
2.6A
40V
L203
33
F202
JS208
IDL5V
C224
F2200/6.3
R216
1K
C227
1/50
C228
470/6.3
R217
2K (F)
JS209
TR206
2SB1326
5.1V
C233
22/16
IC201
TA76431S
2.4V
4.2V
R225
560 1/4W
4.4V
R226
150
1/4W
R218
1.8K (F)
4.9V
AL
TR207
DTC143Z

B(POWER SUPPLY) LINE

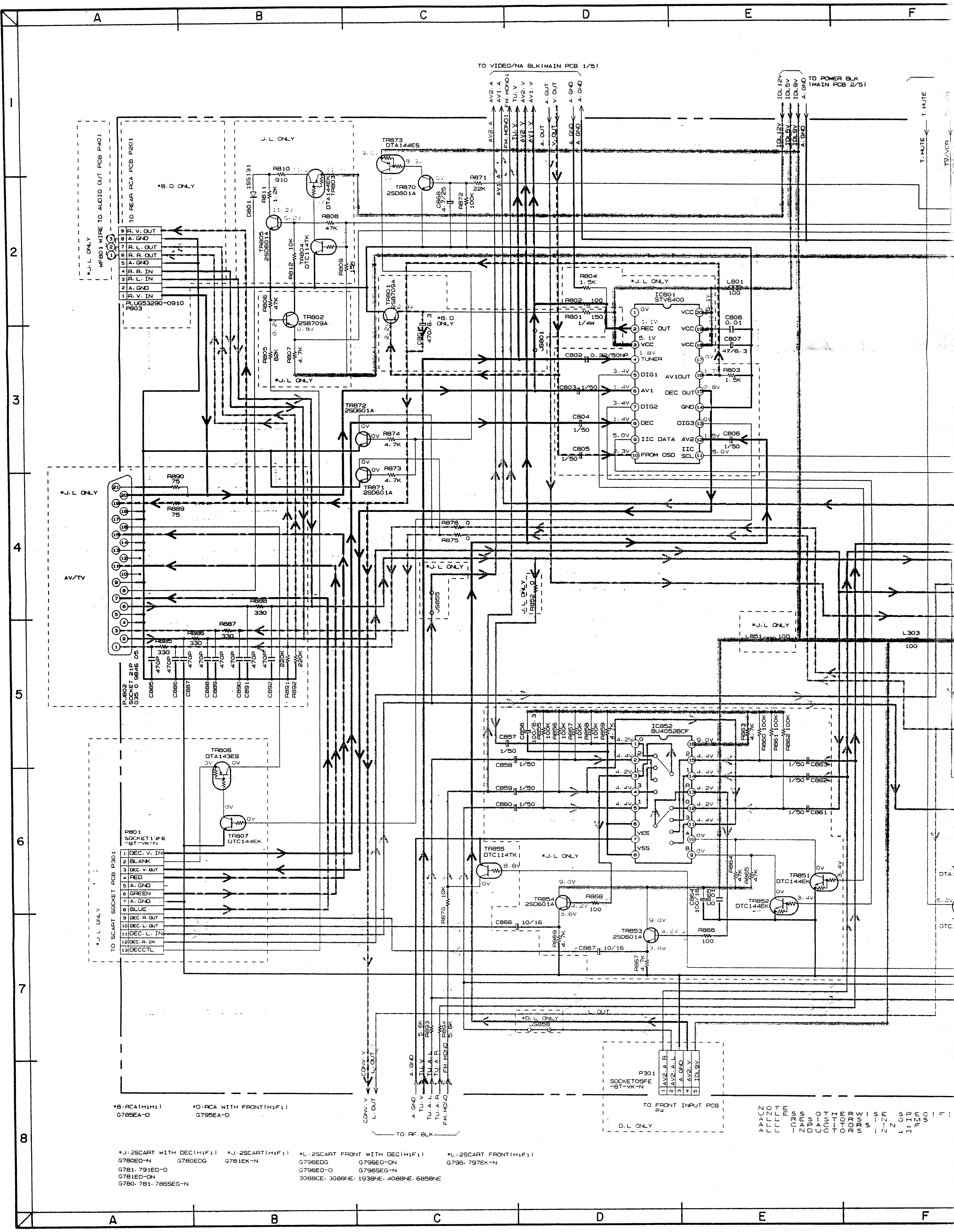
ES WERE MEASURED DURING E-E(STOP)MODE.
'S NEGATIVE INPUT WAS CONNECTED TO
EN THE PRIMARY SECTION WAS MEASURED.
T VOLTAGE WAS AC220V.

DE OF THE POWER SECTION CONTAINS
RE IS RISK OF ELECTRIC SHOCK.
TREME CAUTION.

WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSMENT: ⚠ ET ▨. ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL. NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT.

MAIN 2/5
(POWER SUPPLY BLK)
SCHEMATIC DIAGRAM
NO. 11-3 V1285802M


A
B
C
D
E
F
1
2
3
4
5
6
7
8
TO VIDEO/NA BLK(MAIN PCB 1/5)
AV2. A
AV1. A
FM. MONO1
TU. V
AV2. V
AV1. V
A. OUT
V. OUT
A. GND
TO POWER BLK (MAIN PCB 2/5)
IDL12V
IDL5V
IDL9V
T. MUTE
TV/VCR
*J. L ONLY
WF801 WIRE TO AUDIO OUT PCB P401
TO REAR RCA PCB P201
*B. D ONLY
J. L ONLY
R. V. OUT
A. GND
R. L. OUT
R. R. OUT
R. R. IN
R. L. IN
R. V. IN
PLUG53290-0910
P803
TR873
DTA144ES
TR870
2SD601A
R810
910
R811
1.2K
D801
1SS131
TR803
DTA144EK
TR805
2SD601A
TR804
DTC114TK
R808
47K
R812
10K
R809
15K
C868
4.7/25
R871
22K
R872
100K
TR801
2SB709A
TR802
2SB709A
R806
47K
R805
82K
R807
4.7K
C809
470/6.3
*B. D ONLY
JS801
R804
1.5K
R802
100
R801
150
1/4W
IC801
STV6400
REC OUT
VCC
TUNER
DIG1
AV1
DIG2
DEC
IIC DATA
FROM OSD
AV1OUT
DEC OUT
GND
DIG3
AV2
IIC SCL
L801
100
C808
0.01
C807
47/6.3
R803
1.5K
C802
0.33/50NP
C803
1/50
C804
1/50
C805
1/50
C806
1/50
TR872
2SD601A
R874
4.7K
R873
4.7K
TR871
2SD601A
R890
75
R889
75
R876
0
R875
0
AV/TV
R888
330
R886
330
R887
330
R885
330
P802
SOCKET 21P
035 0 9846 05
C885
C886
C887
C888
C889
C890
C891
C892
470P
220K
R891
R892
JS855
R852
0
L851
100
L303
100
TR806
DTA143ES
TR807
DTC144EK
P801
SOCKET13FE
-BT-VK-N
TO SCART SOCKET PCB P301
DEC. V. IN
BLANK
DEC. V. OUT
RED
A. GND
GREEN
BLUE
DEC. R. OUT
DEC. L. OUT
DEC. L. IN
DEC. R. IN
DECCTL
IC852
BU4052BCF
VEE
VSS
C857
1/50
C856
10/6.3
R855
R856
R857
R858
R859
100K
R863
4.7K
R860
R861
R862
C858
1/50
C859
1/50
C860
1/50
C863
C862
C861
TR855
DTC114TK
TR854
2SD601A
R868
100
R870
10K
C866
10/16
R869
4.7K
C867
10/16
TR853
2SD601A
R867
4.7K
R866
100
C864
100/16
R865
47K
R864
47K
TR851
DTC144EK
TR852
DTC144EK
*D. L ONLY
JS856
L. OUT
R883
5.6K
R884
5.6K
CONV. V
TU. A. L
TU. A. R
FM. MONO
TO. RF. BLK
P301
SOCKET05FE
-BT-VK-N
AV2. A. R
AV2. A. L
AV2. V
IDL9V
TO FRONT INPUT PCB P4
D. L ONLY

*B: RCA(H1H1)
G785EA-D

*D: RCA WITH FRONT(H1F1)
G795EA-D

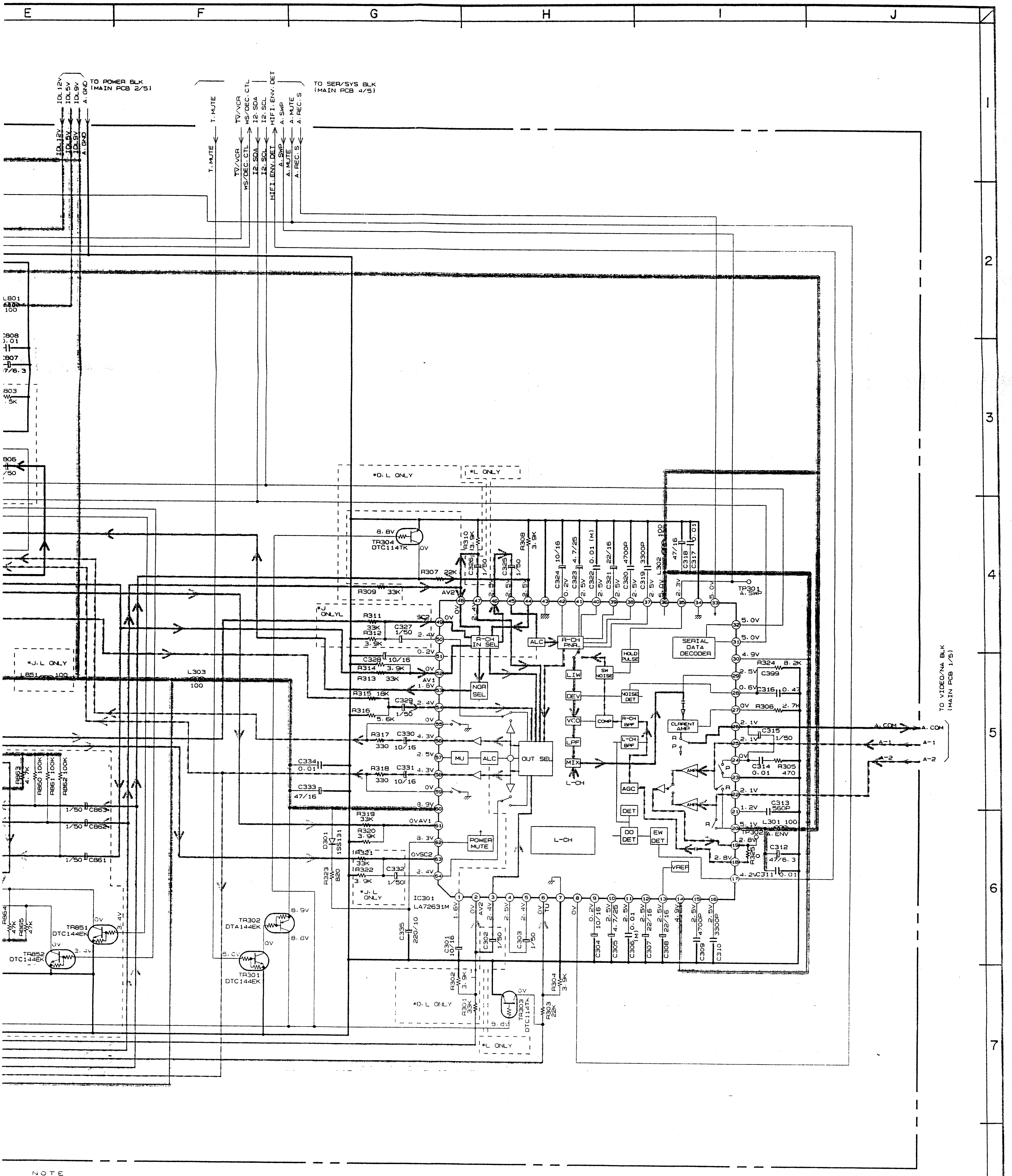
*J: 2SCART WITH DEC(H1F1)
G780EO-N G780EDG
G781, 791EO-D
G781EO-DN
G780, 781, 786SEG-N

*J: 2SCART(H1F1)
G781EK-N

*L: 2SCART FRONT WITH DEC(H1F1)
G796EDG G796EO-DN
G796EO-D G796SEG-N
3088CE, 3088NE, 1938NE, 4088NE, 6858NE

*L: 2SCART FRONT(H1F1)
G796, 797EK-N

NOTE
UNLESS OTHERWISE SPECIFI
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF
ALL INDUCTORS IN μH



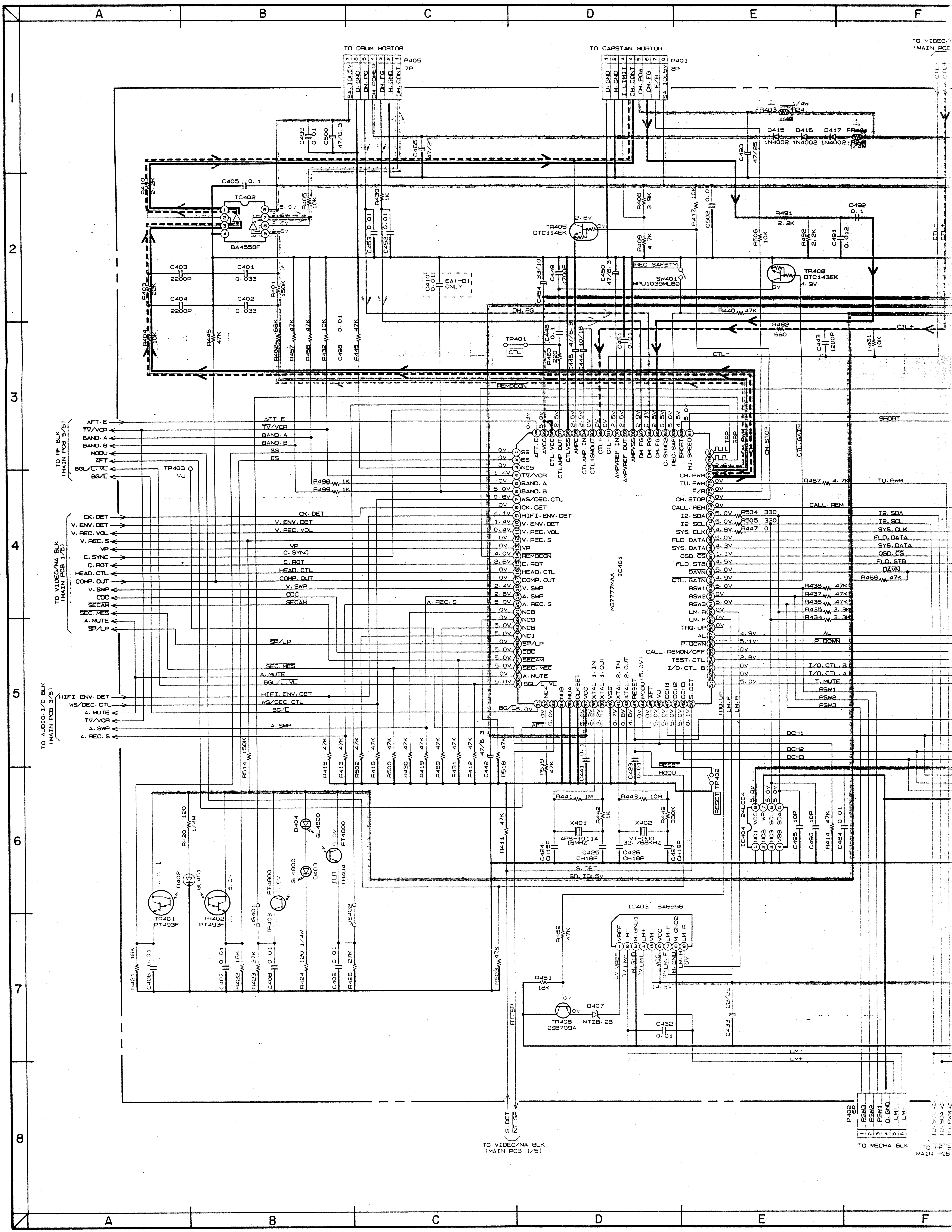
E
F
G
H
I
J
1
2
3
4
5
6
7
8
IDL12V
IDL5V
IDL9V
A.GND
TO POWER BLK
(MAIN PCB 2/5)
T.MUTE
TV/VCR
WS/DEC.CTL
I2.SDA
I2.SCL
HIFI.ENV.DET
A.SWP
A.MUTE
A.REC.S
TO SER/SYS BLK
(MAIN PCB 4/5)
L801
100
C808
0.01
C807
47/6.3
R803
C806
1/50
*J.L ONLY
L851 100
L303
100
*D.L ONLY
*L ONLY
8.8V
TR304
DTC114TK
0V
R310
3.9K
C326
1/50
C325
1/50
R308
3.9K
C324 10/16
C323 4.7/25
C322 0.01 (M)
C321 22/16
C320 4700P
C319 3300P
L302 100
47/16
C318
C317 0.01
R307 22K
R309 33K
AV2
0.2V
2.5V
2.3V
5.0V
TP301
A.SWP
*J ONLY
R311 33K
R312 3.9K
C327 1/50
SC2
2.4V
C328 10/16
0.2V
R314 3.9K
R313 33K
AV1
1.6V
R315 18K
C329 1/50
R316 5.6K
R317 330
C330 10/16
4.3V
C334 0.01
C333 47/16
R318 330
C331 10/16
R319 33K
R320 3.9K
R321 33K
R322 3.9K
C332 1/50
D301 1SS131
R323 820
*J.L ONLY
IC301
LA72631M
R-CH IN SEL
NOR SEL
ALC
R-CH PNR.
MU
OUT SEL
POWER MUTE
L-CH
LIM
DEV
VCO
LPF
MIX
L-CH
SW NOISE
COMP
R-CH BPF
L-CH BPF
HOLD PULSE
NOISE DET
SERIAL DATA DECODER
CLARENT AMP
AMP
AGC
DET
DO DET
EW DET
VREF
5.0V
4.9V
R324 8.2K
C399
C316 0.47
R306 2.7K
2.1V
C315 1/50
C314 0.01
R305 470
C313 560P
1.2V
L301 100
5.1V
TP302 A.ENV
2.8V
C312 47/6.3
R325
4.2V
C311 0.01
A.COM
A-1
A-2
TO VIDEO/NA BLK
(MAIN PCB 1/5)
C335 220/10
C301 10/16
C302 1/50
C303 1/50
C304
C305 4.7/25
C306 0.01 (M)
C307 22/16
C308 22/16
C309 4700P
C310 3300P
R302 3.9K
R301 33K
TR303 DTC114TK
R304 3.9K
R303 22K
5.8V
TR302 DTA144EK
8.9V
8.8V
TR301 DTC144EK
5.0V
TR851 DTC144EK
TR852 DTC144EK
3.4V
R864 47K
R865 47K
R863 4.7K
R860 100K
R861 100K
R862 100K
C863 1/50
C862 1/50
C861 1/50

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF
ALL INDUCTORS IN μH

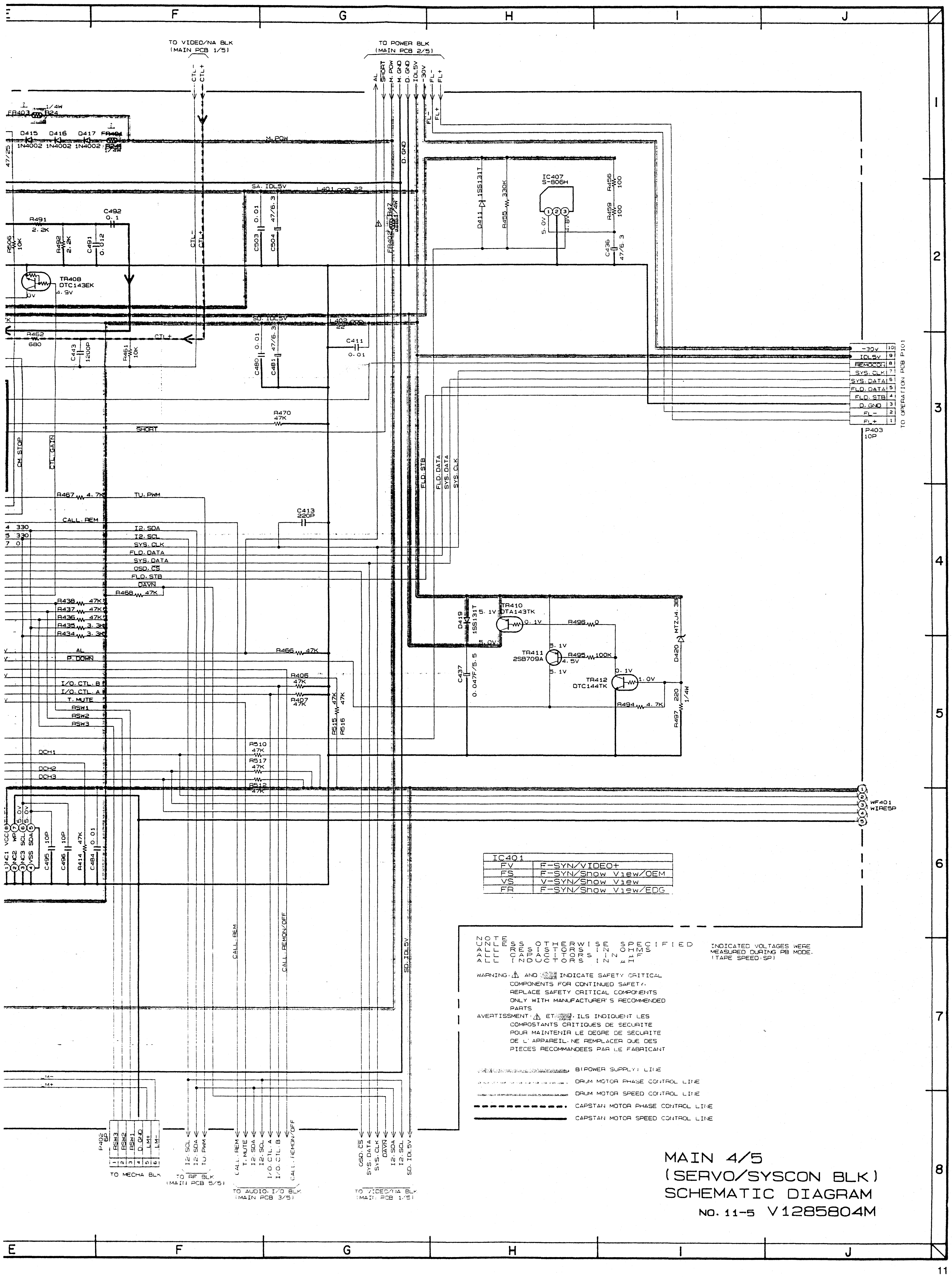
B(POWER SUPPLY) LINE
PB AUDIO SIGNAL LINE
REC/E-E AUDIO SIGNAL LINE
LINEAR AUDIO PB SIGNAL LINE
PB VIDEO SIGNAL LINE
REC/E-E VIDEO SIGNAL LINE
R.G.B SIGNAL LINE

MAIN 3/5
(Hi-Fi AUDIO & I/O BLK)
SCHEMATIC DIAGRAM

NO. 11-4 V1285803M



TO DRUM MORTOR
P405 7P
SA. IDL5V
D. GND
DM. PG
DM. POWER
DM. FG
M. GND
DM. CONT
TO CAPSTAN MORTOR
P401 8P
D. GND
M. GND
I. LIMIT
CM. CONT
CM. POW
CM. FG
F/R
SA. IDL5V
IC402
BA4558F
TR405
DTC114EK
TR408
DTC143EK
REC SAFETY
SW401
MPU1039MLB0
EA(-D) ONLY
TP401
CTL
REMOCON
DM. PG
CTL+
CTL-
IC401
M37777MAA
TO RF BLK (MAIN PCB 5/5)
AFT. E
TV/VCR
BAND. A
BAND. B
MODU
AFT
BGL/L. VL
BG/L
TP403
VJ
TO VIDEO/NA BLK (MAIN PCB 1/5)
CK. DET
V. ENV. DET
V. REC. VOL
V. REC. S
VP
C. SYNC
C. ROT
HEAD. CTL
COMP. OUT
V. SWP
CDC
SECAM
SEC. MES
A. MUTE
SP/LP
TO AUDIO.I/O BLK (MAIN PCB 3/5)
HIFI. ENV. DET
WS/DEC. CTL
A. MUTE
TV/VCR
A. SWP
A. REC. S
CM. PWM
TU. PWM
F/R
CM. STOP
CALL. REM
I2. SDA
I2. SCL
SYS. CLK
FLD. DATA
SYS. DATA
OSD. CS
FLD. STB
DAVN
CTL. GAIN
RSW1
RSW2
RSW3
LM. R
LM. F
TRQ. UP
AL
P. DOWN
CALL. REMON/OFF
TEST. CTL
I/O. CTL. B
I/O. CTL. A
T. MUTE
SHORT
DCH1
DCH2
DCH3
RESET
MODU
TP402
X401
APS-1011A 16MHZ
X402
VT-200 32.768KHZ
IC404 24LC04
S. DET
SD. IDL5V
TR401 PT493F
TR402 PT493F
TR403 PT4800
TR404 PT4800
D402 GL451
D403 GL4800
D404 GL4800
JS401
JS402
IC403 BA6956
TR406 2SB709A
D407 MTZ8.2B
D415 1N4002
D416 1N4002
D417 1N4002
FR403
FR404
LM-
LM+
P402 6P
TO MECHA BLK
TO VIDEO/NA BLK (MAIN PCB 1/5)
S. DET
NT. SP
TO VIDEO (MAIN PCB
TO RF B (MAIN PCB
A
B
C
D
E
F
1
2
3
4
5
6
7
8


E
F
G
H
I
J
1
2
3
4
5
6
7
8
TO VIDEO/NA BLK (MAIN PCB 1/5)
CTL-
CTL+
TO POWER BLK (MAIN PCB 2/5)
AL
SHORT
M. POW
M. GND
D. GND
IDL5V
-30V
FL-
FL+
FR403
R24
1/4W
D415
D416
D417
FR404
1N4002
M. POW
SA. IDL5V
L401
22
C492
0. 1
R491
2. 2K
R506
10K
R492
2. 2K
C491
0. 012
C503
0. 01
C504
47/6. 3
FR402
R47
1/4W
D411
1SS131T
R455
330K
IC407
S-806H
5. 0V
4. 8V
R456
100
R459
100
C436
47/6. 3
TR408
DTC143EK
4. 9V
SO. IDL5V
L402
22
R462
680
C443
1200P
R461
10K
CTL+
C480
0. 01
C481
47/6. 3
C411
0. 01
R470
47K
SHORT
CM STOP
CTL GAIN
-30V
IDL5V
REMOCON
SYS. CLK
SYS. DATA
FLD. DATA
FLD. STB
D. GND
FL-
FL+
P403
10P
TO OPERATION PCB P101
FLD. STB
FLD. DATA
SYS. DATA
SYS. CLK
R467
4. 7K
TU. PWM
CALL. REM
C413
220P
I2. SDA
I2. SCL
SYS. CLK
FLD. DATA
SYS. DATA
OSD. CS
FLD. STB
DAVN
R468
47K
R438
R437
R436
R435
R434
47K
3. 3K
AL
P. DOWN
R466
47K
I/O. CTL. B
I/O. CTL. A
T. MUTE
RSW1
RSW2
RSW3
R406
47K
R407
47K
R515
47K
R516
47K
DCH1
DCH2
DCH3
R510
47K
R517
47K
R512
47K
D419
1SS131T
5. 1V
5. 0V
TR410
DTA143TK
0. 1V
R496
0
TR411
2SB709A
5. 1V
4. 5V
R495
100K
C437
0. 047F/5. 5
TR412
DTC144TK
0. 1V
1. 0V
R494
4. 7K
D420
MTZJ4. 3B
R497
220
1/4W
WF401
WIRE5P
VCC
WP
SCL
SDA
VSS
NC1
NC2
NC3
5. 0V
C495
10P
C496
10P
R414
47K
C484
0. 01
CALL. REM
CALL. REMON/OFF
SO. IDL5V
M-
M+
P402
6P
RSW3
RSW2
RSW1
D. GND
LM+
LM-
TO MECHA BLK
TO RF BLK (MAIN PCB 5/5)
I2. SCL
I2. SDA
TU. PWM
TO AUDIO. I/O BLK (MAIN PCB 3/5)
CALL. REM
T. MUTE
I2. SDA
I2. SCL
I/O. CTL. A
I/O. CTL. B
CALL. REMON/OFF
TO VIDEO/NA BLK (MAIN PCB 1/5)
OSD. CS
SYS. DATA
SYS. CLK
DAVN
I2. SDA
I2. SCL
SO. IDL5V

IC401	
FV	F-SYN/VIDEO+
FS	F-SYN/Show View/OEM
VS	V-SYN/Show View
FR	F-SYN/Show View/EDG

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF
ALL INDUCTORS IN μH

INDICATED VOLTAGES WERE
MEASURED DURING PB MODE.
(TAPE SPEED: SP)

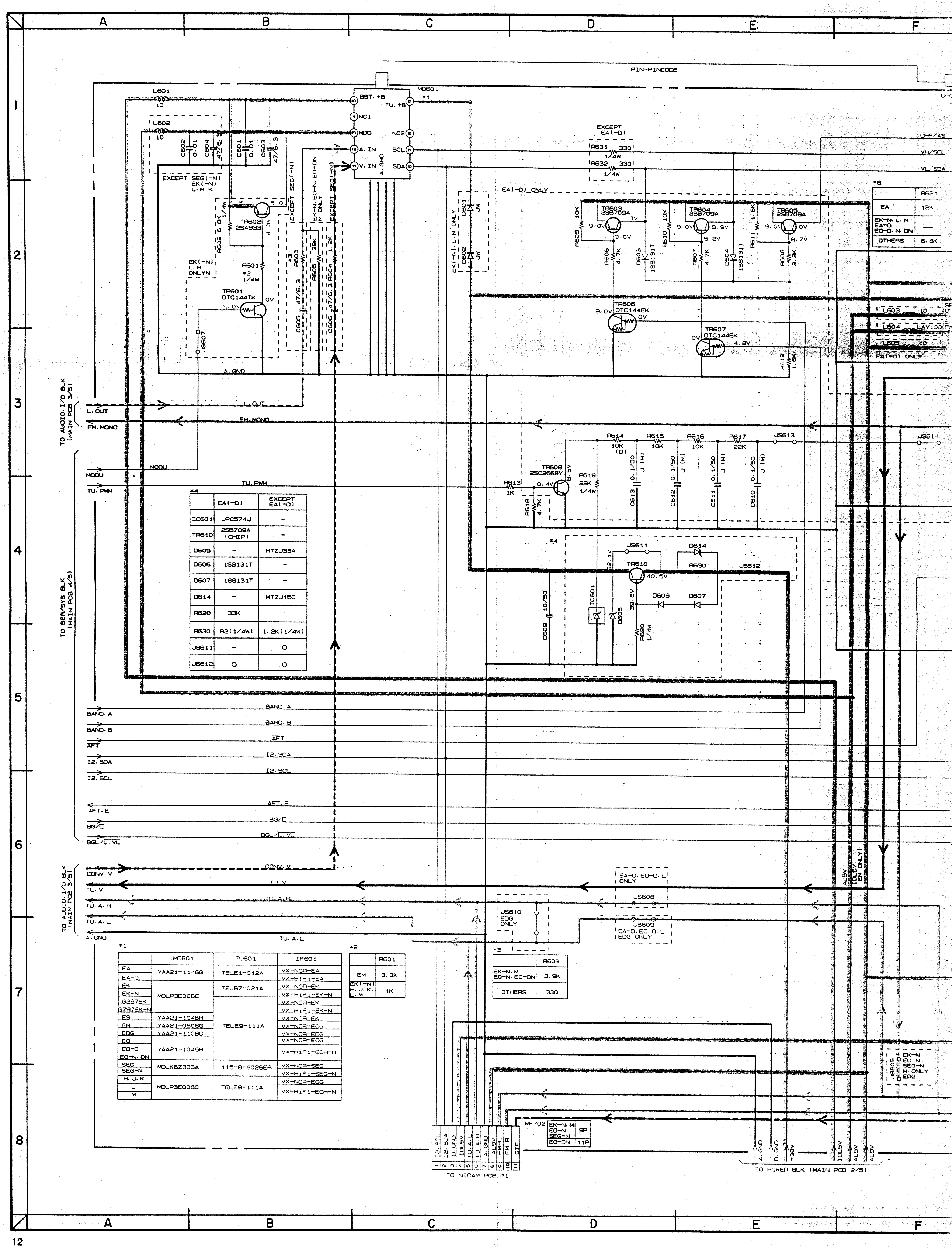
WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ▨. ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SECURITE POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL. NE REMPLACER QUE DES PIECES RECOMMANDEES PAR LE FABRICANT

▨ B(POWER SUPPLY) LINE
┈ DRUM MOTOR PHASE CONTROL LINE
▨ DRUM MOTOR SPEED CONTROL LINE
- - - - CAPSTAN MOTOR PHASE CONTROL LINE
━━━ CAPSTAN MOTOR SPEED CONTROL LINE

MAIN 4/5
(SERVO/SYSCON BLK)
SCHEMATIC DIAGRAM

NO. 11-5 V1285804M


A
B
C
D
E
F
1
2
3
4
5
6
7
8
PIN-PINCODE
MD601
*1
BST. +8
TU. +8
NC1
MOD
NC2
A. IN
SCL
V. IN
SDA
A. GND
L601
10
L602
10
C502
0. 01
C504
47/6. 3
C501
0. 01
C503
47/6. 3
EXCEPT SEG(-N)
EK(-N)
L. M K
EXCEPT SEG(-N)
EK-N. EO-N. EO-DN
M ONLY
EXCEPT SEG(-N)
TR602
2SA933
R602 6. 8K 1/4W
R601
*2
1/4W
EK(-N)
L. M
ONLYN
TR601
DTC144TK
5. 0V
0V
JS607
*3
R603
R605
39K
R604
1.2K
C505
47/6. 3
C506
47/6. 3
A. GND
D501
JW
D502
JW
EK(-N). L. M ONLY
EXCEPT
EA(-D)
R631
330
1/4W
R632
330
1/4W
EA(-D) ONLY
TR603
2SB709A
TR604
2SB709A
TR605
2SB709A
9. 0V
9. 0V
8. 9V
9. 2V
8. 7V
0V
R609
10K
R606
4.7K
D603
1SS131T
R610
10K
R607
4.7K
D604
1SS131T
R611
1. 6K
R608
2. 2K
TR606
DTC144EK
TR607
DTC144EK
4. 8V
R612
1. 6K
UHF/AS
VH/SCL
VL/SDA
*8
L603
10
L604
LAV100(EA
L605
10
EA(-D) ONLY
TO AUDIO. I/O BLK
(MAIN PCB 3/5)
L. OUT
FM. MONO
MODU
TU. PWM
TO SER/SYS BLK
(MAIN PCB 4/5)
R614
10K
(D)
R615
10K
R616
10K
R617
22K
JS613
JS614
TR608
2SC2668Y
0. 4V
8. 5V
R613
1K
R618
4. 7K
R619
22K
1/4W
C613
0. 1/50
J (M)
C612
0. 1/50
J (M)
C611
0. 1/50
J (M)
C610
0. 1/50
J (M)
*4
JS611
D614
TR610
R630
JS612
32. 1V
40. 5V
D606
D607
IC601
D605
39. 8V
R620
1/4W
C609
10/50
BAND. A
BAND. B
AFT
I2. SDA
I2. SCL
AFT. E
BG/L
BGL/L. VL
CONV. V
TU. V
TU. A. R
TU. A. L
A. GND
EA-D. EO-D. L
ONLY
JS608
JS609
EA-D. EO-D. L
EDG ONLY
JS610
EDG
ONLY
AL5V
IDL5V
(EM ONLY)
JS605
EK-N
EO-N
SEG-N
M. ONLY
EDG
WF702
EK-N. M
EO-N
SEG-N
9P
EO-DN
11P
I2. SCL
I2. SDA
D. GND
IDL5V
TU. A. L
TU. A. R
A. GND
AL9V
FM. L
FM. R
STF
1
2
3
4
5
6
7
8
9
10
11
TO NICAM PCB P1
A. GND
D. GND
+38V
IDL5V
AL5V
AL9V
TO POWER BLK (MAIN PCB 2/5)

*4

	EA(-D)	EXCEPT EA(-D)
IC601	UPC574J	-
TR610	2SB709A (CHIP)	-
D605	-	MTZJ33A
D606	1SS131T	-
D607	1SS131T	-
D614	-	MTZJ15C
R620	33K	-
R630	82(1/4W)	1. 2K(1/4W)
JS611	-	○
JS612	○	○

*1

	MD601	TU601	IF601
EA	YAA21-1146G	TELE1-012A	VX-NOR-EA
EA-D			VX-H1F1-EA
EK	MDLP3E008C	TELB7-021A	VX-NOR-EK
EK-N			VX-H1F1-EK-N
G297EK		TELE9-111A	VX-NOR-EK
G797EK-N			VX-H1F1-EK-N
ES	YAA21-1046H		VX-NOR-EK
EM	YAA21-0808G		VX-NOR-EOG
EDG	YAA21-1108G		VX-NOR-EDG
EO	YAA21-1045H		VX-NOR-EOG
EO-D			VX-H1F1-EOH-N
EO-N. DN			
SEG	MDLK6Z333A	115-8-8026ER	VX-NOR-SEG
SEG-N			VX-H1F1-SEG-N
H. J. K	MDLP3E008C	TELE9-111A	VX-NOR-EOG
L			VX-H1F1-EOH-N
M			

*2

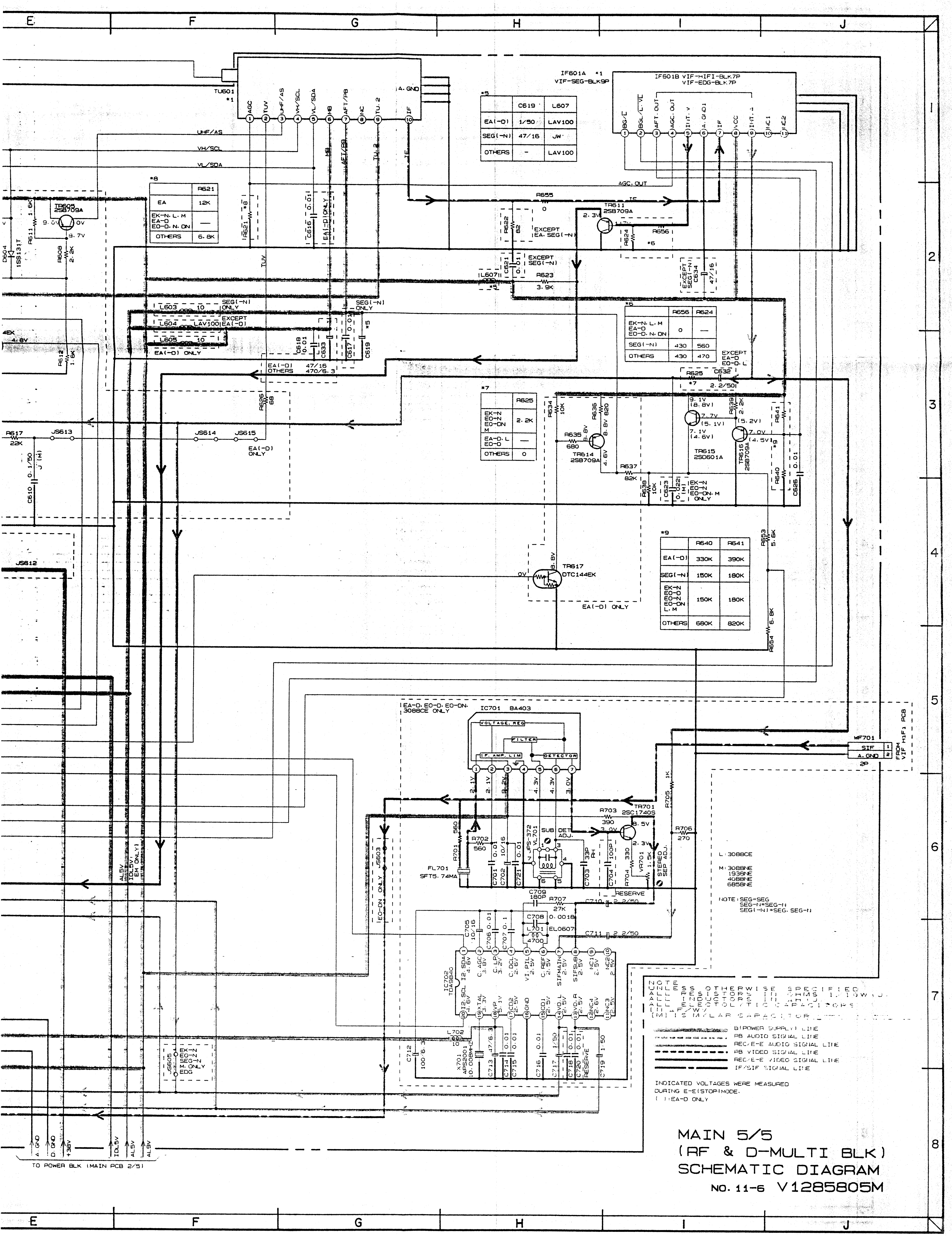
	R601
EM	3. 3K
EK(-N) H. J. K. L. M	1K

*3

	R603
EK-N. M EO-N. EO-DN	3. 9K
OTHERS	330

*8

	R621
EA	12K
EK-N. L. M EA-D EO-D. N. DN	—
OTHERS	6. 8K


E
F
G
H
I
J
1
2
3
4
5
6
7
8
TU601 *1
AGC
TUV
UHF/AS
VH/SCL
VL/SDA
MB
AFT/PB
NC
TU. 2
IF
A. GND
UHF/AS
VH/SCL
VL/SDA
IF601A *1 VIF-SEG-BLK9P
IF601B VIF-HIFI-BLK7P VIF-EDG-BLK7P
BG/L
BGL/L.VL
AFT. OUT
AGC. OUT
INT. V
A. GND
IF
VCC
INT. A
NC1
NC2
AGC. OUT
R655 0
TR611 2SB709A
TR605 2SB709A
R511 1.6K
R508 2.2K
D604 1SS131T
R621
R622 82
EXCEPT EA. SEG(-N)
R624
R656
C616 0.01
EA(-D) ONLY
C621 0.01
EXCEPT SEG(-N)
L607
R623 3.9K
EXCEPT SEG(-N) C634 47/16
L603 10 SEG(-N) ONLY
L604 LAV100 EXCEPT EA(-D)
L605 10
EA(-D) ONLY
C618 0.01
C633
C617 0.01
C619
SEG(-N) ONLY
EA(-D) 47/16
OTHERS 470/6.3
EXCEPT EA-D EO-D. L
R625 C632 2.2/50
R612 1.6K
R626 68
R617 22K
JS613
JS614
JS615
EA(-D) ONLY
C610 0.1/50 (M)
JS612
R634 10K
R636 820
R635 680
TR614 2SB709A
R637 82K
R638 10K
C623 0.022 (M)
EK-N EO-N EO-DN. M ONLY
9.1V (8.8V)
7.7V (5.1V)
7.1V (4.6V)
TR615 2SD601A
R639 2.2K
(5.2V)
TR616 2SB709A
7.0V (4.5V)
R641
R640
C626 0.01
R653 5.6K
TR617 DTC144EK
8.8V
0V
EA(-D) ONLY
R654 6.8K
EA-D. EO-D. EO-DN. 3088CE ONLY
IC701 BA403
VOLTAGE. REG
FILTER
I.F. AMP. LIM
DETECTOR
2.1V
2.1V
2.2V
4.3V
4.3V
3.0V
WF701
SIF
A. GND
2P
FROM VIF HIFI PCB
R705 1K
TR701 2SC1740S
R703 390
3.0V
8.5V
2.3V
R706 270
R701 560
R702 560
FL701 SFT5. 74MA
C701 0.01
C702 10/16
C721 0.01
JPS-372 VL701
SUB
DET ADJ.
C703 33P RH
C704 100P
R704 330
VR701 1.5K
STEREO SEP. ADJ.
RESERVE
C709 180P
R707 27K
C710 2.2/50
C708 0.0018
L701 4700
EL0607
C711 2.2/50
JS603 EO-DN ONLY
AL5V
EM ONLY
IC702 TDA8840
C705 10/16
C706 0.01
C707 0.1
I2. SDA 4.6V
C. AGC 3.8V
C. LP 3.2V
C. DCL 2.6V
V1. PIL 2.5V
C. REF 2.5V
SIFMAIN 2.5V
SIFSUB 2.5V
NC1 2.5V
NC2 2.5V
I2. SCL 4.6V
XTAL 3.3V
VP 5.1V
CD2 2.5V
GND
CD1 2.5V
VO. L 2.5V
VO. R 2.5V
NC4 2.6V
NC3 2.5V
L702
C712 100/6.3
X701 APS2001 10.008MHZ
C713 47/6.3
C714 0.01
C715 0.01
C716 0.01
C717 1/50
C718 0.01
C720 RESERVE
C719 1/50
JS605 EK EO-N SEG-N M. ONLY EDG
A. GND
D. GND
+38V
ID. 5V
AL5V
AL9V
TO POWER BLK (MAIN PCB 2/5)

*5

	C619	L607
EA(-D)	1/50	LAV100
SEG(-N)	47/16	JW
OTHERS	-	LAV100

*8

	R621
EA	12K
EK-N. L. M EA-D EO-D. N. DN	—
OTHERS	6.8K

*6

	R656	R624
EK-N. L. M EA-D EO-D. N. DN	0	—
SEG(-N)	430	560
OTHERS	430	470

*7

	R625
EK-N EO-N EO-DN M	2.2K
EA-D. L EO-D	—
OTHERS	0

*9

	R640	R641
EA(-D)	330K	390K
SEG(-N)	150K	180K
EK-N EO-D EO-N EO-DN L. M	150K	180K
OTHERS	680K	820K

L:3088CE
M:3088NE
1938NE
4088NE
6858NE

NOTE: SEG=SEG
SEG-N=SEG-N
SEG(-N)=SEG. SEG-N

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/10W(J)
ALL INDUCTORS IN μH(J)
ALL ELECTOLYTIC CAPACITORS
[ ] μF/WV
[M] IS MYLAR CAPACITOR

▬	B(POWER SUPPLY) LINE
┅	PB AUDIO SIGNAL LINE
━	REC/E-E AUDIO SIGNAL LINE
╍	PB VIDEO SIGNAL LINE
━	REC/E-E VIDEO SIGNAL LINE
━ ━	IF/SIF SIGNAL LINE

INDICATED VOLTAGES WERE MEASURED
DURING E-E(STOP)MODE.
( ):EA-D ONLY

MAIN 5/5
(RF & D-MULTI BLK)
SCHEMATIC DIAGRAM

NO. 11-6 V1285805M

PRINCIPAL PARTS LOCATION

ICs

IC1	D5
IC2	C4
IC3	E5
IC5	C2
IC201	B4
IC202	A2
IC301	F4
IC401	E1,2
IC402	G2
IC403	G1
IC404	G2
IC407	D1
IC601	H6
IC701	H1
IC702	H1,2
IC801	D6
IC851	G6
IC852	F6
IC901	C5,6

TRANSISTORS

TR1	D5
TR2	D5
TR5	D4
TR6	D4
TR7	D5
TR8	C4
TR9	D4
TR10	D4
TR28	D6
TR29	D6
TR72	E4
TR73	E4
TR74	F3
TR75	F4
TR76	F3
TR77	E4
TR101	C6
TR102	C6
TR103	C6
TR151	E4
TR152	E4
TR170	D3
TR171	D3
TR172	D3
TR181	E5
TR182	E5
TR183	E5
TR184	E5
TR201	A4
TR202	A5
TR203	A5
TR205	B3
TR206	B4
TR207	B4
TR209	B3
TR210	A2
TR211	B2
TR212	B3
TR213	B3
TR301	G3
TR302	G4
TR303	G5
TR304	F3
TR401	B3
TR402	G3
TR403	F2
TR404	D2
TR405	G2
TR406	G1
TR408	G1
TR410	D2
TR411	D2
TR412	D2
TR413	E2
TR414	D2
TR601	H6
TR602	H6
TR603	H5
TR604	H5
TR605	H5
TR606	H5
TR607	H5
TR608	H3
TR609	H6
TR610	H6
TR611	H3
TR614	H3
TR615	H3
TR616	H3
TR617	H3
TR701	H1
TR801	D6
TR802	G,H6
TR803	G6
TR804	G6
TR805	G6
TR806	E6
TR807	E6
TR851	E6
TR852	E6
TR853	E6
TR854	E6
TR855	G5
TR870	G5
TR871	G6
TR872	G6
TR873	H5
TR901	B6
TR902	C6
TR903	C5
TR904	C5
TR905	C5
TR906	B5
TR907	B6

CONNECTORS

P2	F5
P301	H3,4
P401	C3
P402	B1,2
P403	A1
P405	G5
P801	E,F6
P803	G6
PJ802	E,F6

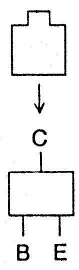
WIRES

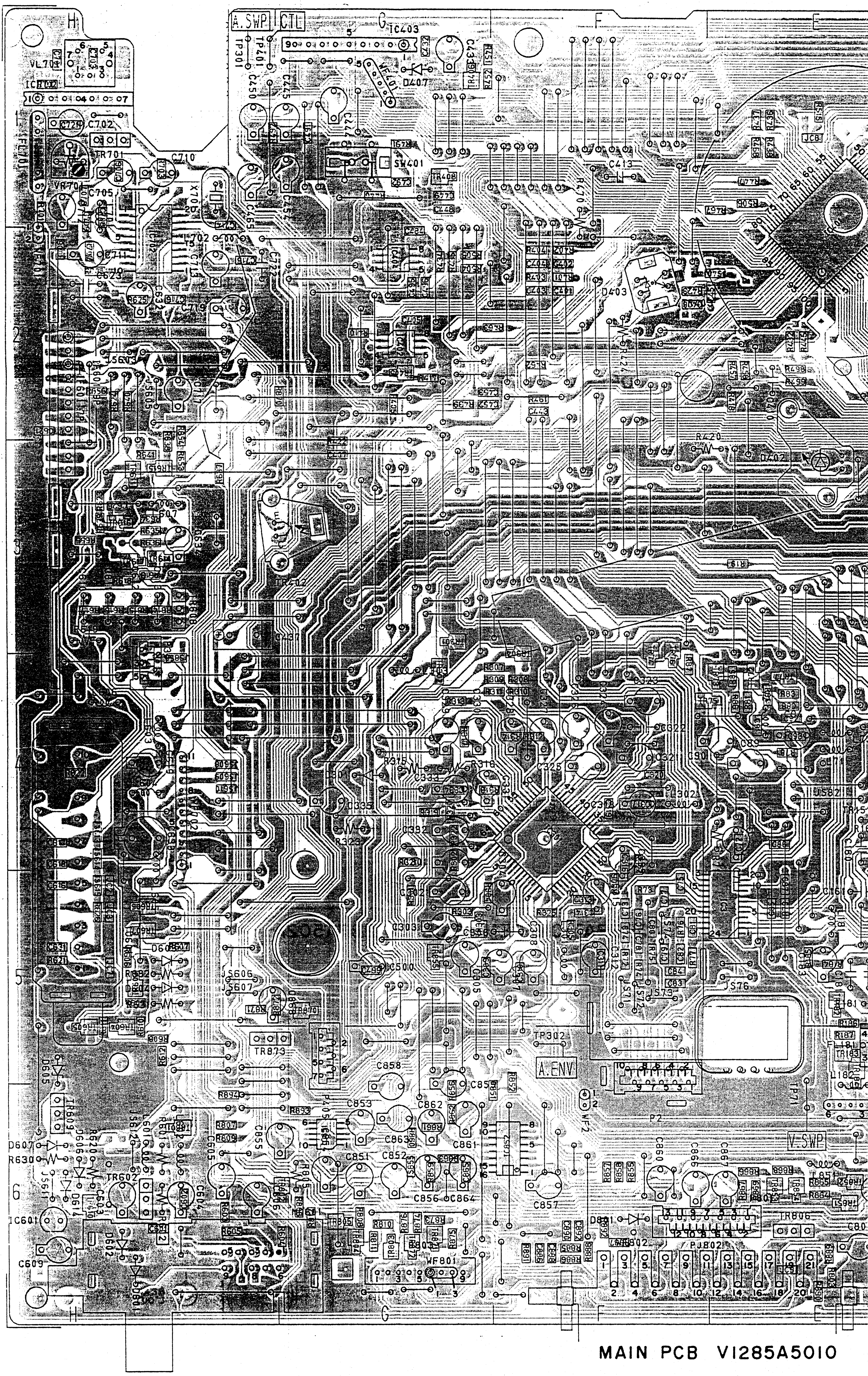
WF1	E6
WF2	F6
WF401	G1
WF701	H2
WF702	H4
WF801	G6

TEST POINTS

TP70	D6
TP71	E6
TP301	H1
TP302	F5
TP401	H1

SINGLE CHIP TRANSISTOR

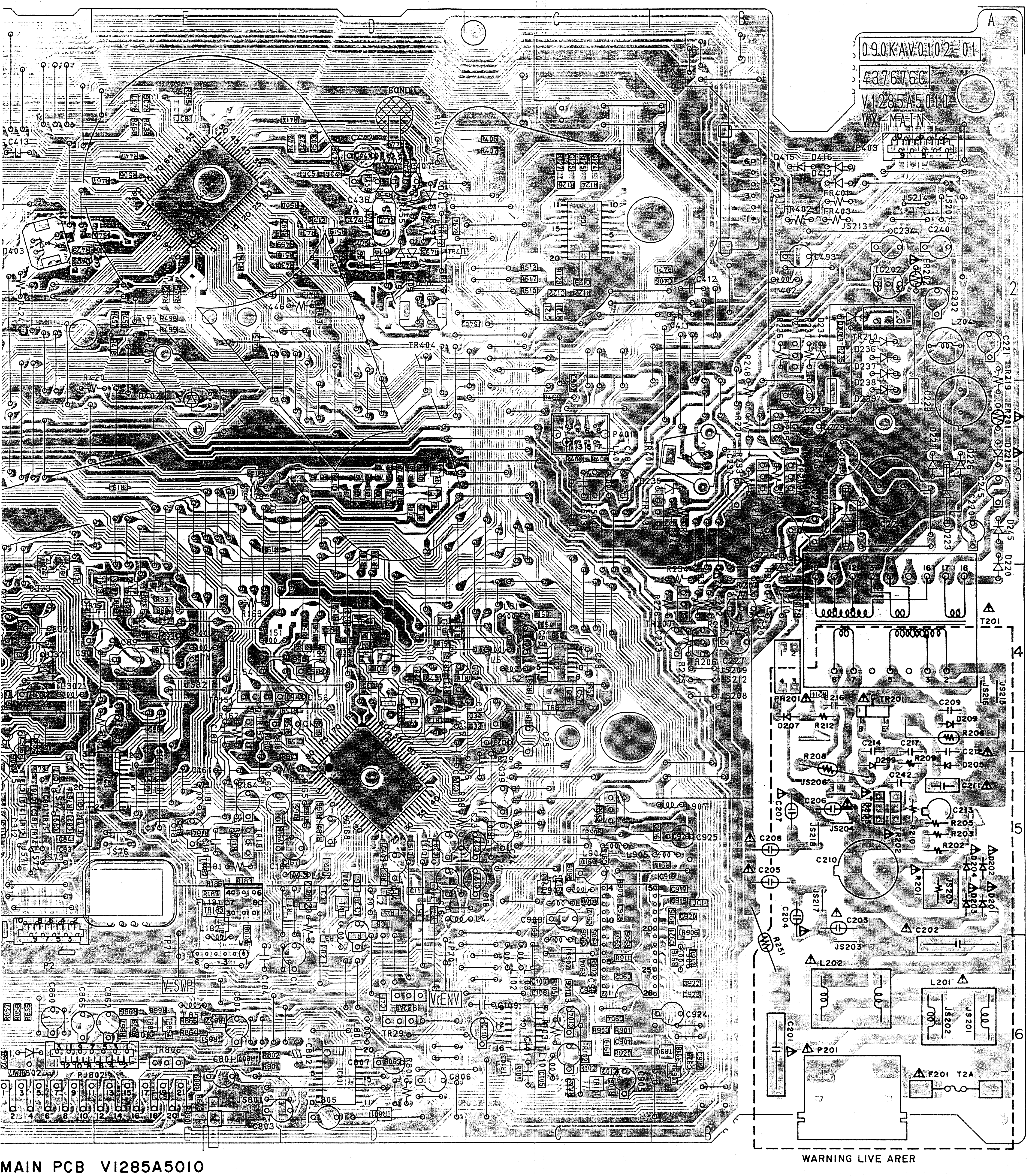



A.SWP
CTL
IC403
TP401
TP301
VL701
IC702
FL701
SW401
D407
D403
D402
TR402
TR873
TR602
IC601
C609
D605
D607
R630
J561
TR806
PJ802
WF801
WF2
TP302
A.ENV
P2
V-SWP
TP71
L182
P405
H
G
F
E
1
2
3
4
5
6

MAIN PCB V1285A5010

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY,
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT


090KAV0102-01
437676C
V1285A5010
VX-MAIN
A
B
C
D
E
1
2
3
4
5
6
T201
L202
L201
P201
F201 T2A
C201
C202
P2
V-SWP
V-ENV
WARNING LIVE ARER

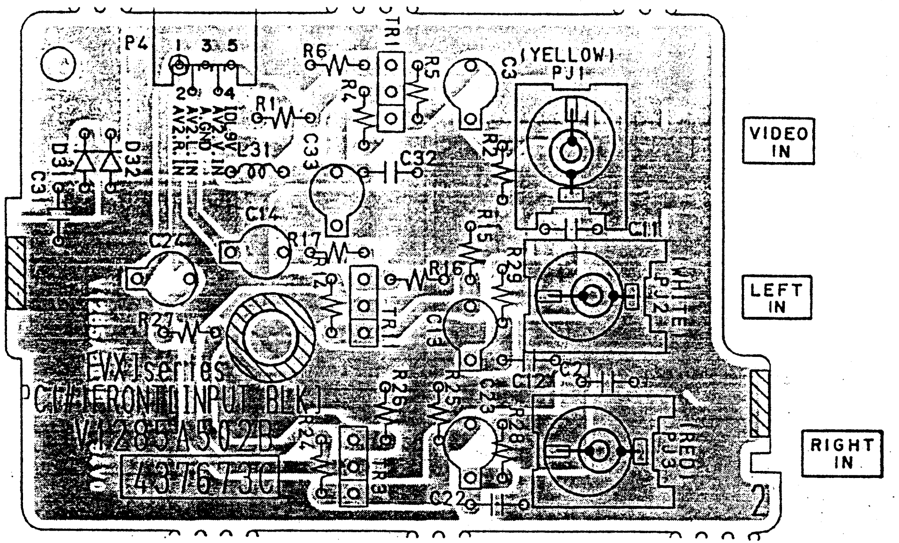
MAIN PCB V1285A5010

NUED SAFETY,
NUFACTURER'S

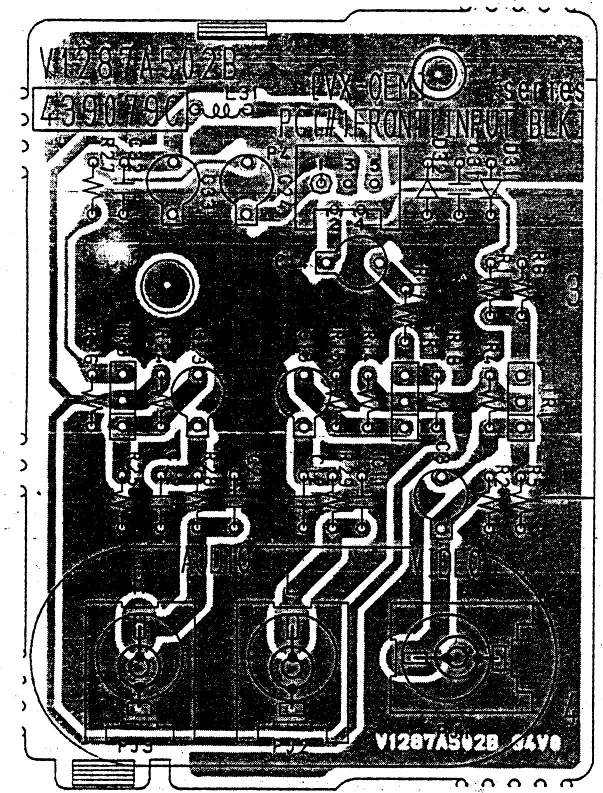
URITÉ.

FABRICANT

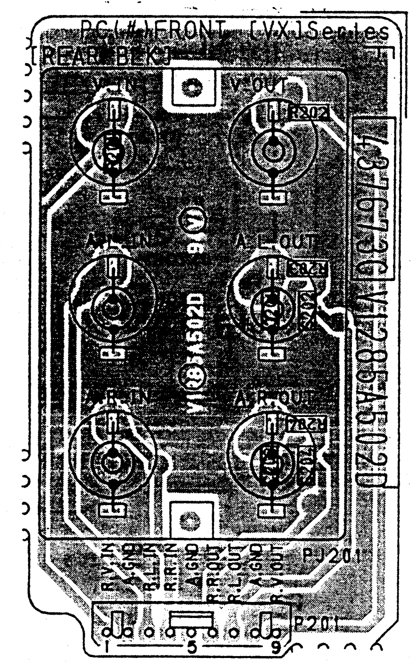
NOTE:
PARTS DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT
PARTS INFORMATION.


VIDEO IN
LEFT IN
RIGHT IN
[VX]series
PC(#)FRONT[INPUT BLK]
V1285A502B
437673C
(YELLOW) PJ1
(WHITE) PJ2
(RED) PJ3

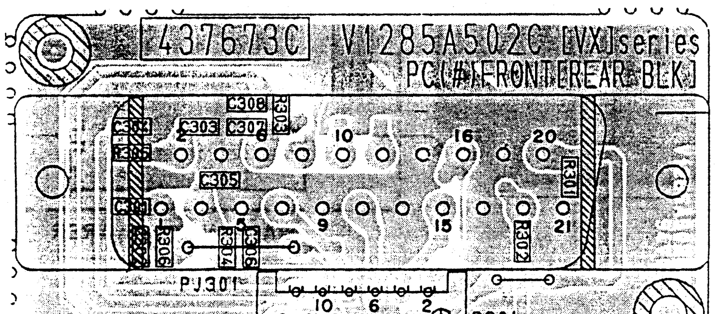
FRONT INPUT PCB V1285A502B


V1287A502B
439079C
[VX-OEM]series
PC(#)FRONT[INPUT BLK]
V1287A502B 94V0

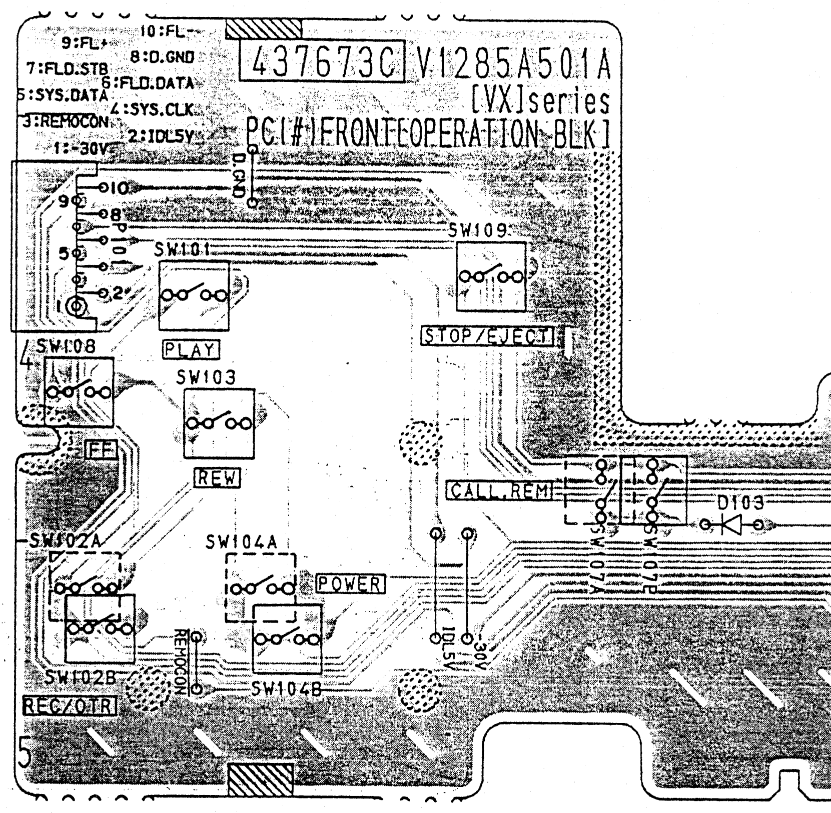
FRONT INPUT(OEM) PCB
V1287A502B

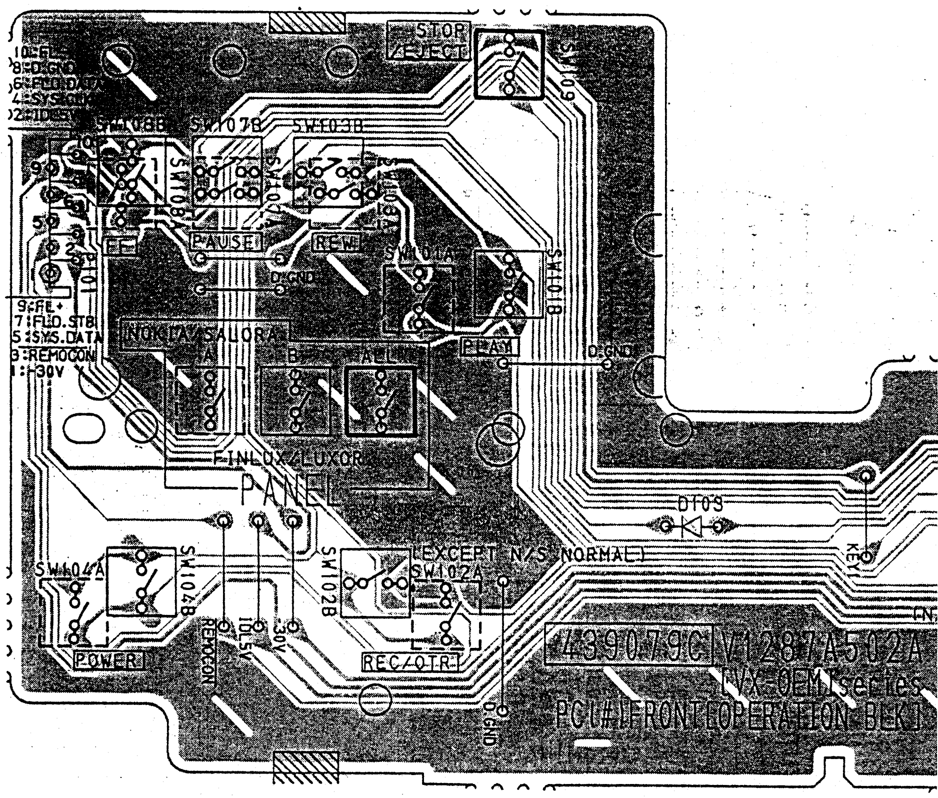

PC(#)FRONT [VX]series
[REAR BLK]
437673C
V1285A502D
PJ201
P201

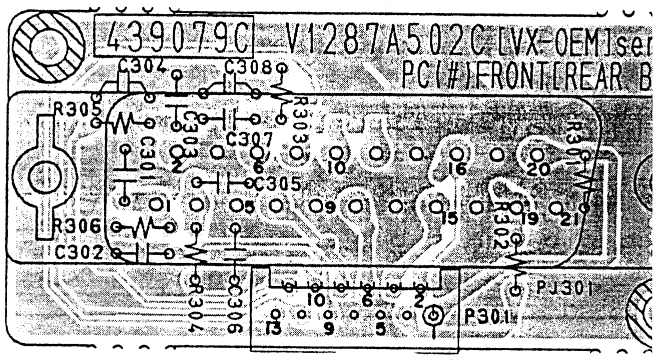
REAR RCA PCB
V1285A502D


437673C
V1285A502C [VX]series
PC(#)FRONT[REAR BLK]
PJ301
P301

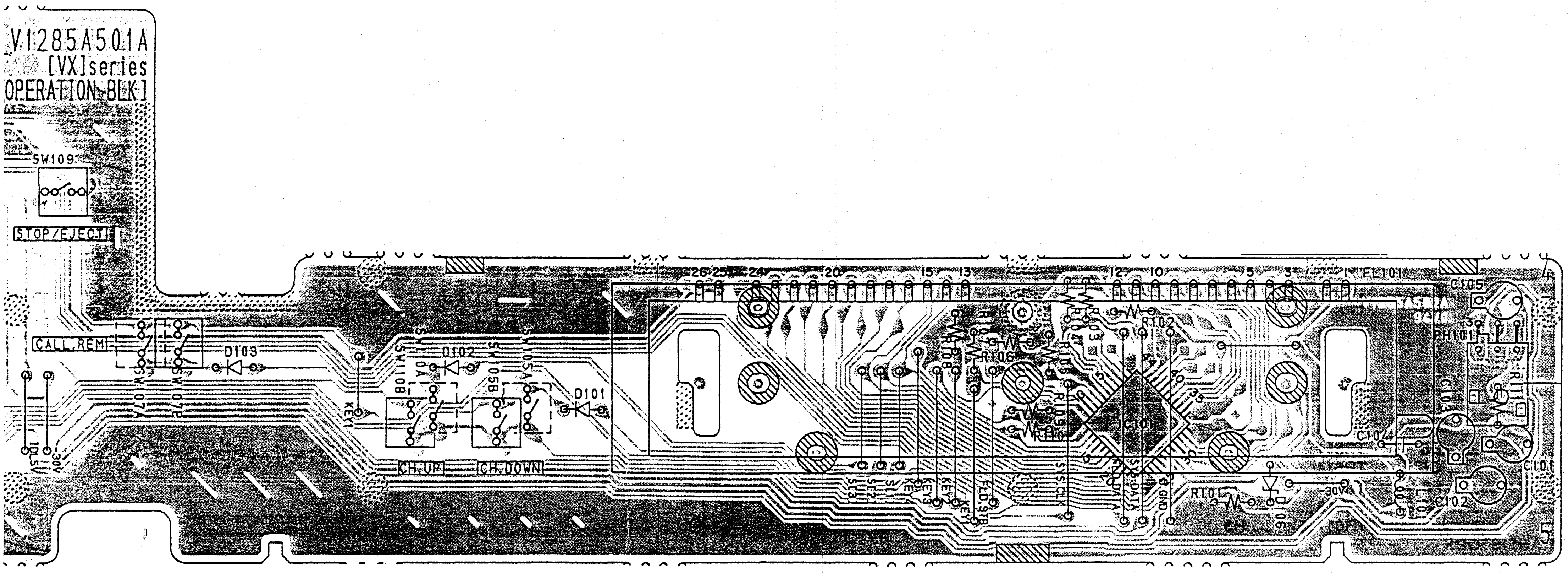
SCART SOCKET PCB
V1285A502C


10:FL-
9:FL+
8:D.GND
7:FLD.STB
6:FLD.DATA
5:SYS.DATA
4:SYS.CLK
3:REMOCON
2:IDL5V
1:-30V
437673C
V1285A501A
[VX]series
PC(#)FRONT[OPERATION BLK]
SW101
SW109
PLAY
STOP/EJECT
SW108
SW103
FF
REW
CALL.REM
D103
SW102A
SW104A
POWER
SW102B
SW104B
REC/OTR

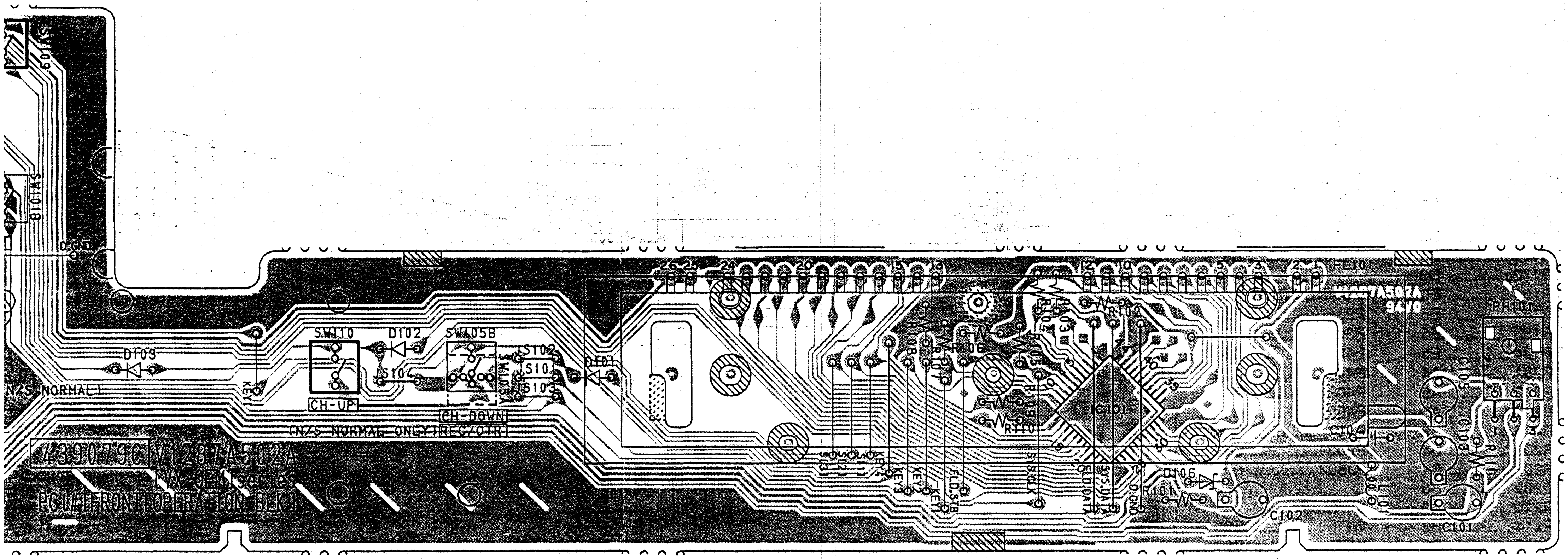

STOP/EJECT
PAUSE
REW
PLAY
FINLUX/LUXOR
PANEL
D103
EXCEPT N/S NORMAL
SW102A
SW104A
SW104B
SW102B
POWER
REC/OTR
439079C
V1287A502A
[VX-OEM]series
PC(#)FRONT[OPERATION BLK]


439079C
V1287A502C [VX-OEM]ser
PC(#)FRONT[REAR B
PJ301
P301

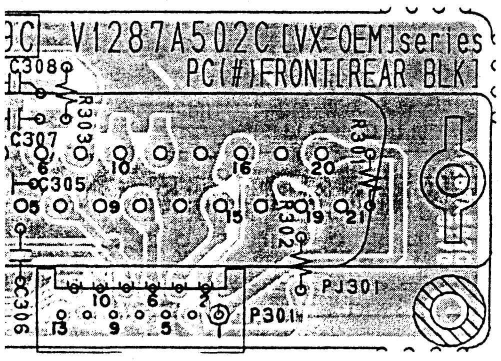
SCART SOCKET(OEM) PCB
V1287A502C


V1285A501A
[VX]series
OPERATION BLK]
SW109
STOP/EJECT
CALL.REM
D103
D102
D101
SW110A
SW110B
SW105A
SW105B
CH.UP
CH.DOWN
KEY1
KEY2
KEY3
FLD.STB
SYS.CK
SO.DATA
SI.DATA
DGND
IC101
FL101
R101
R102
R103
R106
R108
R109
R110
C101
C102
C104
C105
PH101
30V

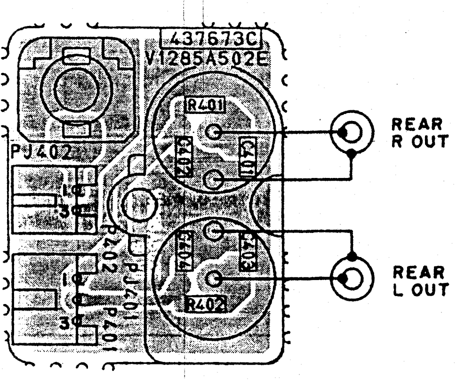
OPERATION PCB V1285A502A


V1287A502A
[VX-OEM]series
PC(#)FRONT[OPERATION BLK]
439079C
SW110
SW105B
D101
D102
D103
S102
S103
S104
CH-UP
CH-DOWN
(N/S NORMAL)
(N/S NORMAL ONLY)(REC/OTR)
KEY1
KEY2
KEY3
FLD.STB
SYS.CK
SO.DATA
SI.DATA
DGND
IC101
FE101
D106
R101
R106
R108
R109
R110
C101
C102
C104
PH101
1287A502A
94V0

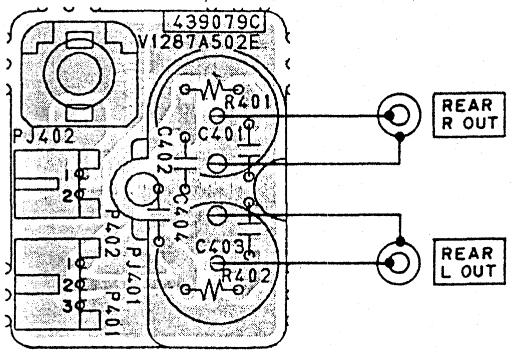
OPERATION(OEM) PCB V1287A502A


V1287A502C [VX-OEM]series
PC(#)FRONT[REAR BLK]
C308
C307
C305
C306
R303
R302
R301
PJ301
P301

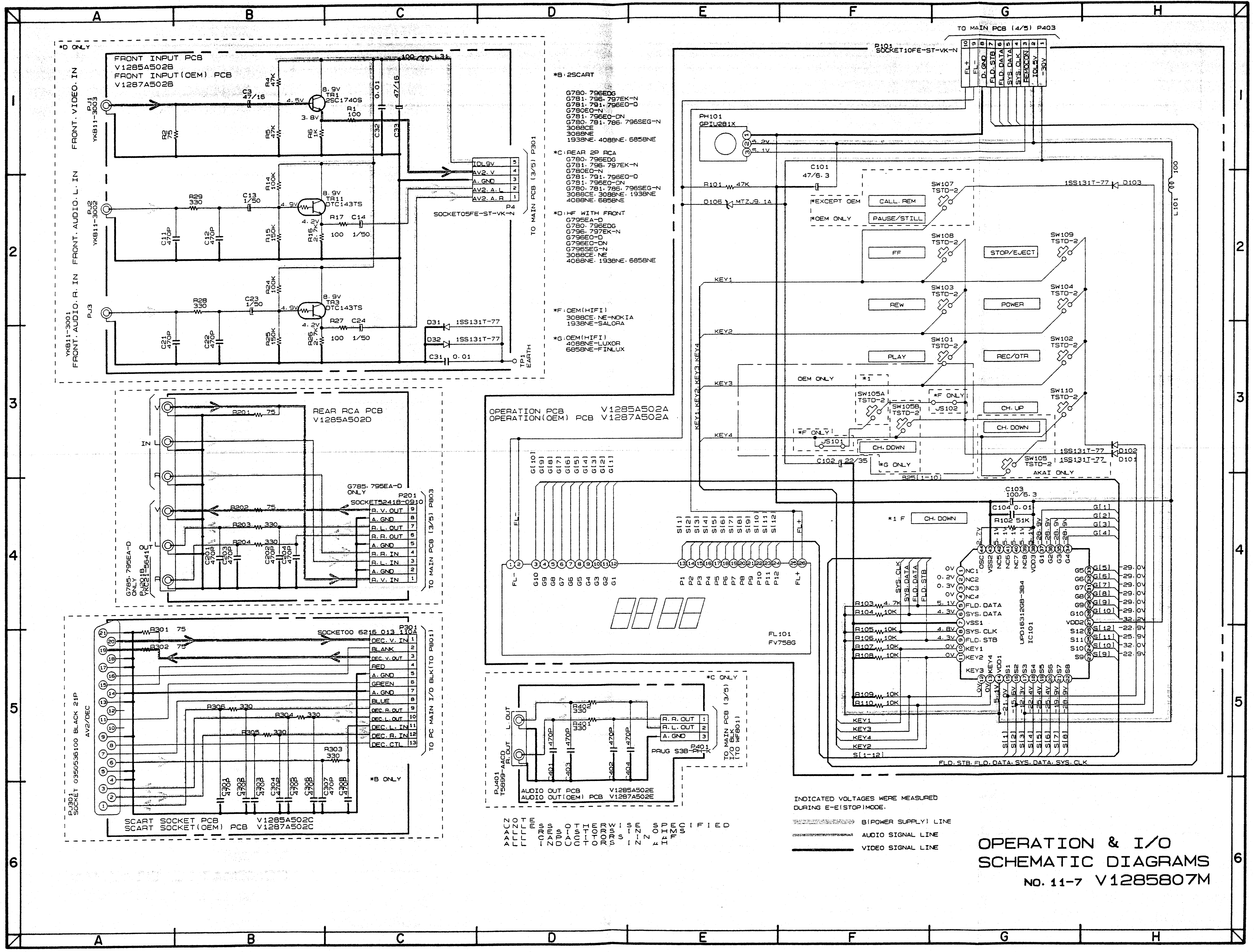
T SOCKET(OEM) PCB
7A502C


437673C
V1285A502E
R401
R402
C401
C402
C403
C404
PJ402
PJ401
P402
P401
REAR
R OUT
REAR
L OUT

AUDIO OUT PCB
V1285A502E


439079C
V1287A502E
R401
R402
C401
C402
C403
C404
PJ402
PJ401
P402
P401
REAR
R OUT
REAR
L OUT

AUDIO OUT(OEM) PCB
V1287A502E


A
B
C
D
E
F
G
H
1
2
3
4
5
6
*D ONLY
FRONT INPUT PCB V1285A502B
FRONT INPUT(OEM) PCB V1287A502B
FRONT. VIDEO. IN
PJ1 YKB11-3003
FRONT. AUDIO. L. IN
PJ2 YKB11-3002
YKB11-3001 FRONT. AUDIO. R. IN
PJ3
TR1 2SC1740S
TR11 DTC143TS
TR3 DTC143TS
8.9V
4.5V
3.8V
4.9V
4.2V
R1 100
R2 75
R4 47K
R5 47K
R6 1K
C3 47/16
C32 0.01
C33 47/16
L31
R14 100K
R15 150K
R16 2.7K
R17 100
C14 1/50
R29 330
C13 1/50
C11 470P
C12 470P
R24 100K
R25 150K
R26 2.7K
R27 100
C24 1/50
R28 330
C23 1/50
C21 470P
C22 470P
D31 1SS131T-77
D32 1SS131T-77
C31 0.01
TP1 EARTH
IDL9V
AV2.V
A.GND
AV2.A.L
AV2.A.R
P4 SOCKET05FE-ST-VK-N
TO MAIN PCB (3/5) P301
REAR RCA PCB V1285A502D
V
IN
L
R
O
R201 75
R202 75
R203 330
R204 330
C201 470P
C203 470P
C202 470P
C204 470P
G785. 795EA-D ONLY
P201 SOCKET52418-0910
R.V.OUT
A.GND
R.L.OUT
R.R.OUT
A.GND
R.R.IN
R.L.IN
A.GND
R.V.IN
TO MAIN PCB (3/5) P803
G785. 795EA-D ONLY
PJ201B YKC21-5641
P301 SOCKET00 6215 013 110A
R301 75
R302 75
DEC.V.IN
BLANK
DEC.V.OUT
RED
A.GND
GREEN
A.GND
BLUE
DEC.R.OUT
DEC.L.OUT
DEC.L.IN
DEC.R.IN
DEC.CTL
R306 330
R304 330
R305 330
R303 330
C301 470P
C302 470P
C303 470P
C304 470P
C305 470P
C306 470P
C307 470P
C308 470P
TO PC MAIN I/O BLK(TO PB01)
*B ONLY
PJ301 SOCKET 0350536100 BLACK 21P AV2/DEC
SCART SOCKET PCB V1285A502C
SCART SOCKET(OEM) PCB V1287A502C
OPERATION PCB V1285A502A
OPERATION(OEM) PCB V1287A502A
FL101 FV758G
FL-
G10 G9 G8 G7 G6 G5 G4 G3 G2 G1
P1 P2 P3 P4 P5 P6 P7 P8 P9 P10 P11 P12
FL+
S(1) S(2) S(3) S(4) S(5) S(6) S(7) S(8) S(9) S(10) S(11) S(12)
G(10) G(9) G(8) G(7) G(6) G(5) G(4) G(3) G(2) G(1)
*C ONLY
PJ401 T5899-AACD
L. OUT
R. OUT
R401 330
R402 330
C401 470P
C402 470P
C403 470P
C404 470P
R.R.OUT
R.L.OUT
A.GND
P401 PRUG S38-PH-K
TO MAIN PCB (3/5) I/O BLK (TO WF801)
AUDIO OUT PCB V1285A502E
AUDIO OUT(OEM) PCB V1287A502E
TO MAIN PCB (4/5) P403
P101 SOCKET10FE-ST-VK-N
FL+
FL-
D.GND
FLD.STB
FLD.DATA
SYS.DATA
SYS.CLK
REMOCON
IDL5V
-30V
PH101 GP1U281X
5.2V
5.1V
C101 47/6.3
R101 47K
D106 MTZJ9.1A
*EXCEPT OEM
*OEM ONLY
CALL. REM
PAUSE/STILL
SW107 TSTD-2
SW108 TSTD-2
SW109 TSTD-2
FF
STOP/EJECT
SW103 TSTD-2
SW104 TSTD-2
REW
POWER
SW101 TSTD-2
SW102 TSTD-2
PLAY
REC/OTR
SW110 TSTD-2
CH. UP
CH. DOWN
SW105A TSTD-2
SW105B TSTD-2
OEM ONLY
*1
*F ONLY
JS102
JS101
*G ONLY
SW105 TSTD-2
AKAI ONLY
D103 1SS131T-77
D102 1SS131T-77
D101 1SS131T-77
L101 100
C102 22/35
R25(1-10)
KEY1
KEY2
KEY3
KEY4
KEY1.KEY2.KEY3.KEY4
C103 100/6.3
C104 0.01
R102 51K
*1 F CH. DOWN
IC101 UPD16312GB-3B4
OSC
VSS2
NC5
NC6
NC7
NC8
VDD3
NC1
NC2
NC3
NC4
FLD. DATA
SYS. DATA
VSS1
SYS. CLK
FLD. STB
KEY1
KEY2
KEY3
KEY4
VDD1
VDD2
G1 G2 G3 G4 G5 G6 G7 G8 G9 G10
S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12
R103 4.7K
R104 10K
R105 10K
R106 10K
R107 10K
R108 10K
R109 10K
R110 10K
SYS. CLK
SYS. DATA
FLD. DATA
FLD. STB
-29.0V
-32.2V
-22.9V
-25.9V
-32.0V
S(1-12)
FLD. STB. FLD. DATA. SYS. DATA. SYS. CLK

*B:2SCART
G780. 796EDG
G781. 796. 797EK-N
G781. 791. 796EO-D
G780EO-N
G781. 796EO-DN
G780. 781. 786. 796SEG-N
3088CE
3088NE
1938NE. 4088NE. 6858NE

*C:REAR 2P RCA
G780. 796EDG
G781. 796. 797EK-N
G780EO-N
G781. 791. 796EO-D
G781. 796EO-DN
G780. 781. 786. 796SEG-N
3088CE. 3088NE. 1938NE
4088NE. 6858NE

*D:HF WITH FRONT
G795EA-D
G780. 796EDG
G796. 797EK-N
G796EO-D
G796EO-DN
G796SEG-N
3088CE. NE
4088NE. 1938NE. 6858NE

*F:OEM(HIFI)
3088CE. NE-NOKIA
1938NE-SALORA

*G:OEM(HIFI)
4088NE-LUXOR
6858NE-FINLUX

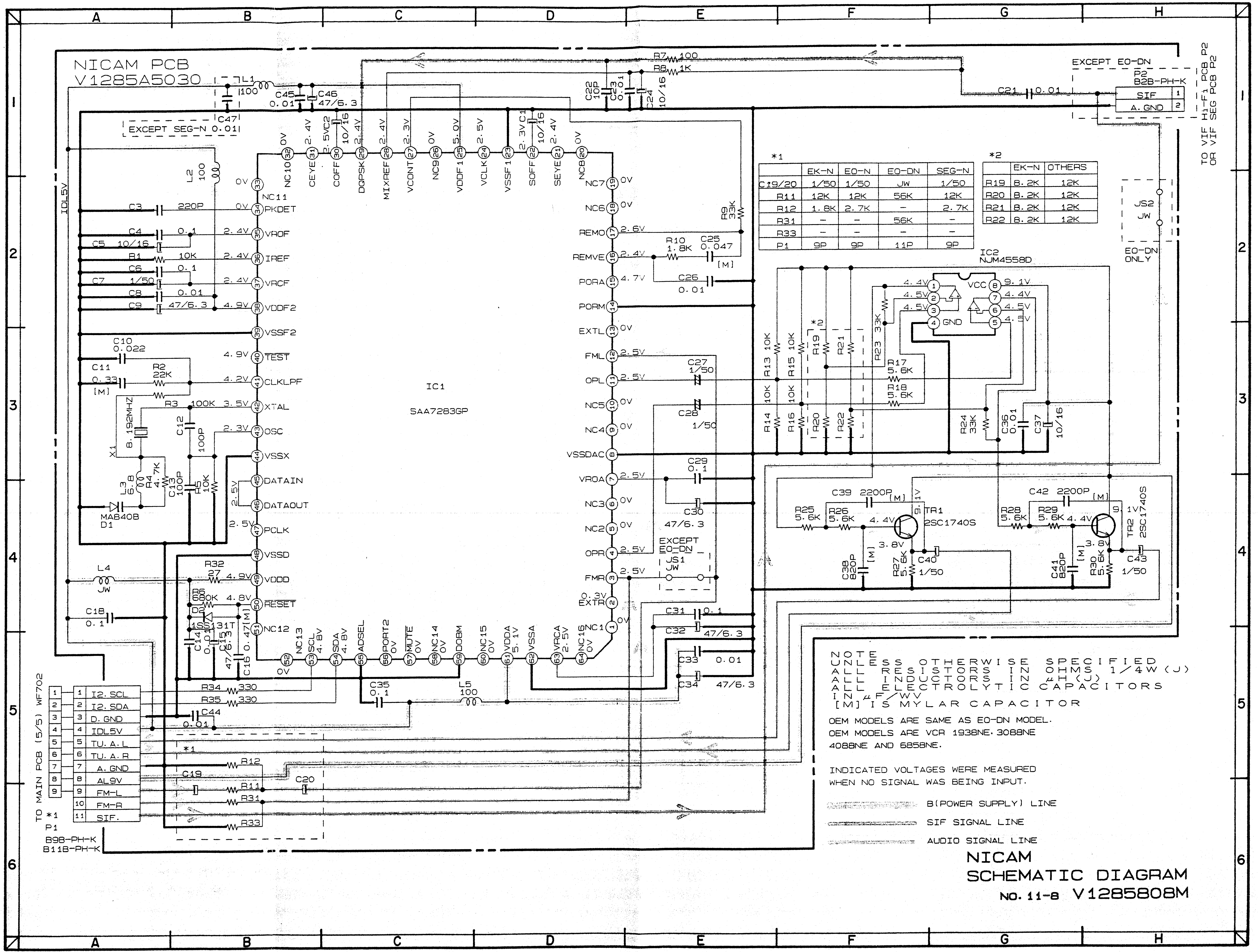
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF
ALL INDUCTORS IN μH

INDICATED VOLTAGES WERE MEASURED DURING E-E(STOP)MODE.

▨ B(POWER SUPPLY) LINE
▨ AUDIO SIGNAL LINE
▬ VIDEO SIGNAL LINE

OPERATION & I/O SCHEMATIC DIAGRAMS

NO. 11-7 V1285807M


A
B
C
D
E
F
G
H
1
2
3
4
5
6
NICAM PCB
V1285A5030
L1 100
C45 0.01
C46 47/6.3
C47
EXCEPT SEG-N 0.01
IDL5V
L2 100
IC1
SAA7283GP
NC10
CEYE
COFF
DQPSK
MIXREF
VCONT
NC9
VDDF1
VCLK
VSSF1
SOFF
SEYE
NC8
PKDET
VROF
IREF
VRCF
VDDF2
VSSF2
TEST
CLKLPF
XTAL
OSC
VSSX
DATAIN
DATAOUT
PCLK
VSSD
VDDD
RESET
NC12
NC13
SCL
SDA
ADSEL
PORT2
MUTE
NC14
DOBM
NC15
VDDA
VSSA
VRCA
NC16
NC1
EXTR
FMR
OPR
NC2
NC3
VROA
VSSDAC
NC4
NC5
OPL
FML
EXTL
PORM
PORA
REMVE
REMO
NC6
NC7
X1 8.192MHZ
MA840B D1
L4 JW
C18 0.1
R32 27
R6 680K
1SS131T
C44 0.01
R34 330
R35 330
C35 0.1
L5 100
R7 100
R8 1K
C22 10P
C23 0.01
C24 10/16
C21 0.01
EXCEPT EO-DN
P2 B2B-PH-K
SIF
A. GND
TO VIF Hi-Fi PCB P2
OR VIF SEG PCB P2
JS2 JW
EO-DN ONLY
R9 33K
R10 1.8K
C25 0.047
C26 0.01
C27 1/50
C28 1/50
C29 0.1
C30 47/6.3
EXCEPT EO-DN
JS1 JW
C31 0.1
C32 47/6.3
C33 0.01
C34 47/6.3
IC2
NJM4558D
VCC
GND
R13 10K
R14 10K
R15 10K
R16 10K
R17 5.6K
R18 5.6K
R23 33K
R24 33K
C36 0.01
C37 10/16
C39 2200P [M]
TR1 2SC1740S
R25 5.6K
R26 5.6K
C38 820P [M]
R27 5.6K
C40 1/50
C42 2200P [M]
TR2 2SC1740S
R28 5.6K
R29 5.6K
C41 820P [M]
R30 5.6K
C43 1/50
TO MAIN PCB (5/5) WF702
I2. SCL
I2. SDA
D. GND
IDL5V
TU. A. L
TU. A. R
A. GND
AL9V
FM-L
FM-R
SIF
*1
P1
B9B-PH-K
B11B-PH-K
R12
R11
R31
R33
C19
C20

*1

	EK-N	EO-N	EO-DN	SEG-N
C19/20	1/50	1/50	JW	1/50
R11	12K	12K	56K	12K
R12	1.8K	2.7K	–	2.7K
R31	–	–	56K	–
R33	–	–	–	–
P1	9P	9P	11P	9P

*2

	EK-N	OTHERS
R19	8.2K	12K
R20	8.2K	12K
R21	8.2K	12K
R22	8.2K	12K

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL INDUCTORS IN μH (J)
ALL ELECTROLYTIC CAPACITORS
IN μF/WV
[M] IS MYLAR CAPACITOR

OEM MODELS ARE SAME AS EO-DN MODEL.
OEM MODELS ARE VCR 1938NE, 3088NE
4088NE AND 6858NE.

INDICATED VOLTAGES WERE MEASURED
WHEN NO SIGNAL WAS BEING INPUT.

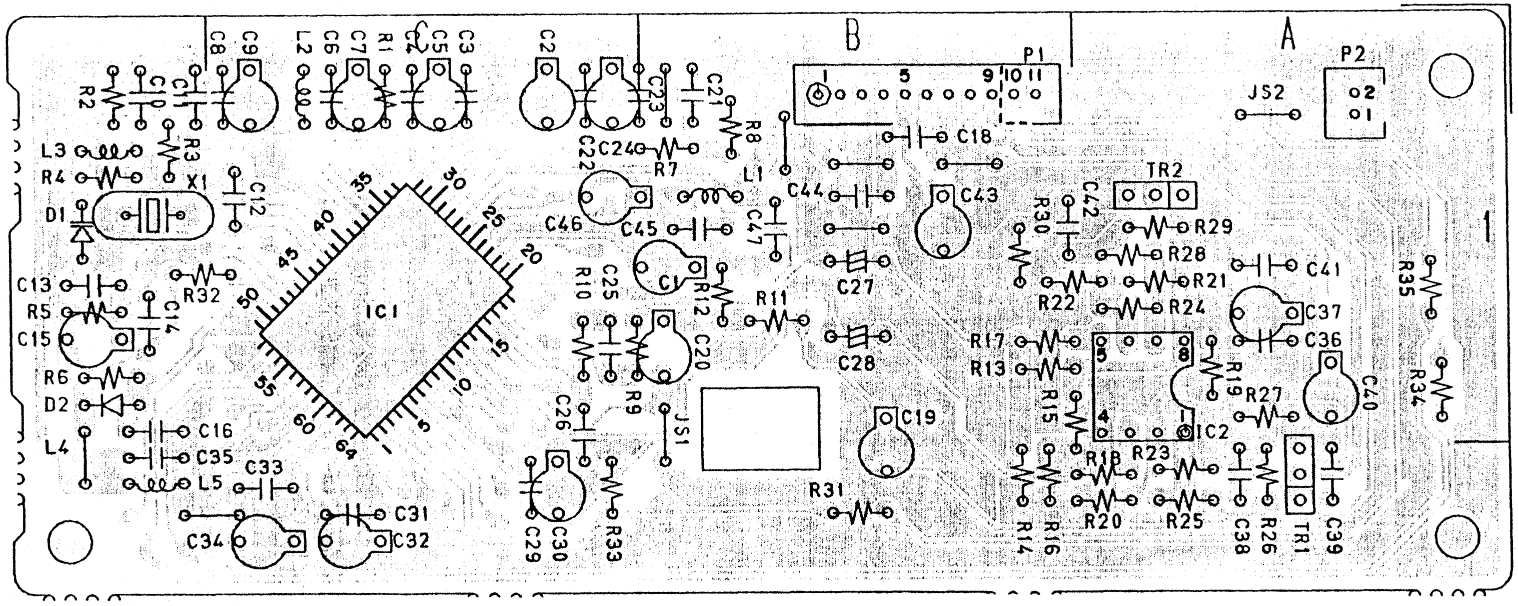
B(POWER SUPPLY) LINE

SIF SIGNAL LINE

AUDIO SIGNAL LINE

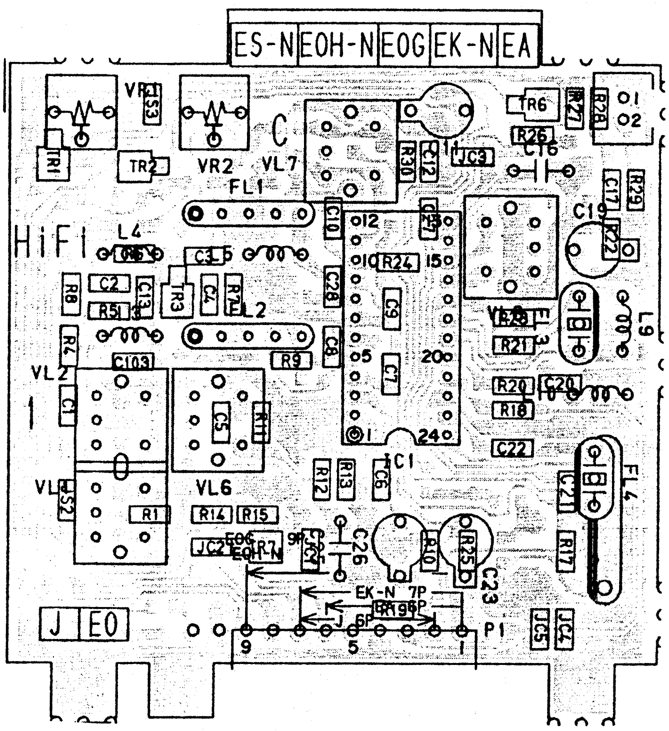
NICAM
SCHEMATIC DIAGRAM

NO. 11-8 V1285808M


A
B
1
P1
P2
JS1
JS2
IC1
IC2
TR1
TR2
X1
D1
D2
L1
L2
L3
L4
L5
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12
R13
R14
R15
R16
R17
R18
R19
R20
R21
R22
R23
R24
R25
R26
R27
R28
R29
R30
R31
R32
R33
R34
R35
C1
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
C12
C13
C14
C15
C16
C18
C19
C20
C21
C22
C23
C24
C25
C26
C27
C28
C29
C30
C31
C32
C33
C34
C35
C36
C37
C38
C39
C40
C41
C42
C43
C44
C45
C46
C47

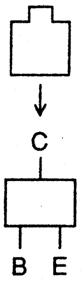
NICAM PCB V1285A5030

NOTE:
PARTS DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT
PARTS INFORMATION.

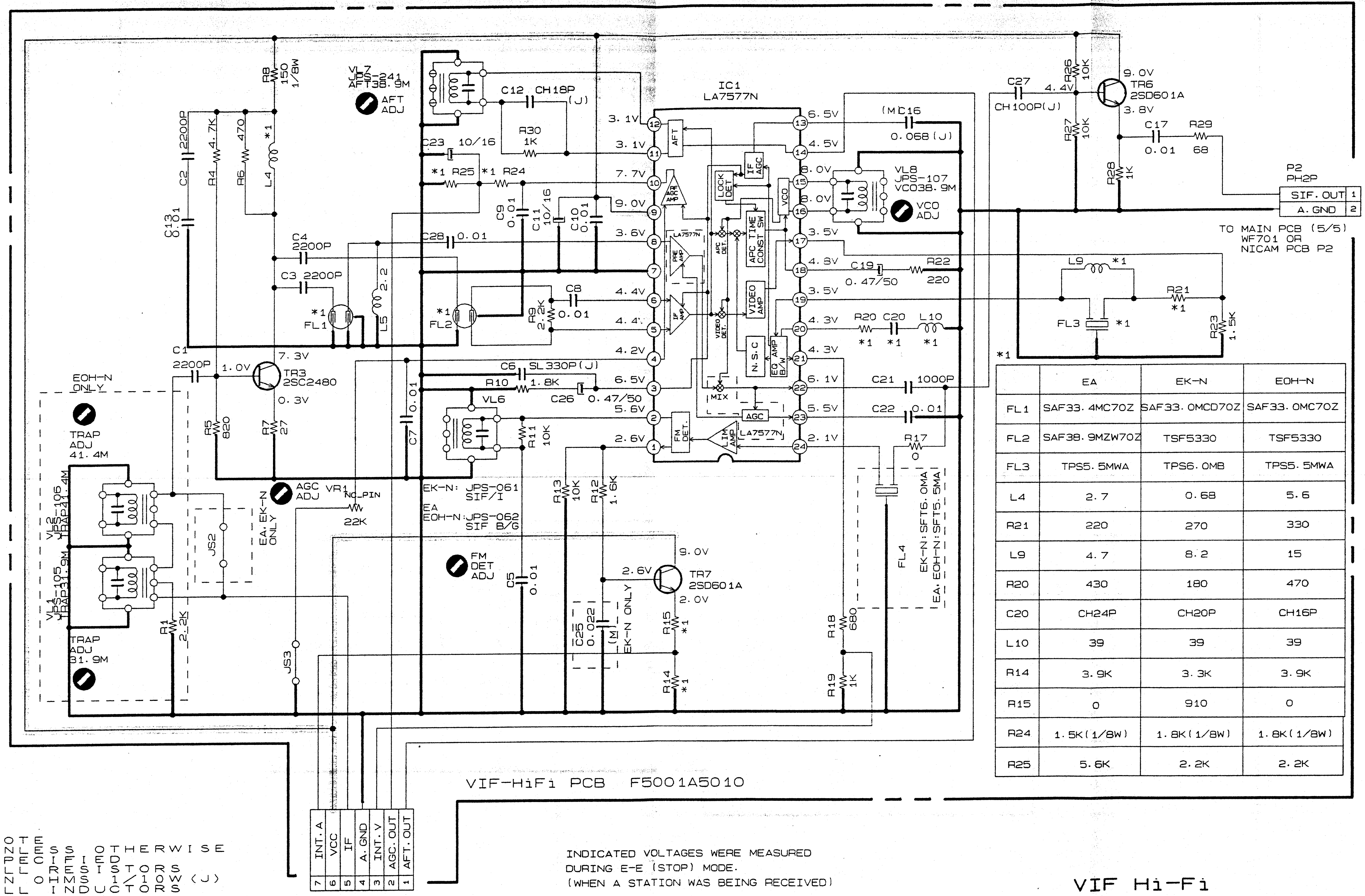

ES-N
EOH-N
EOG
EK-N
EA
VR1
S3
TR1
TR2
VR2
VL7
FL1
C10
C12
R30
JC3
TR6
R27
R28
R26
C16
C17
R29
C19
R22
HiFi
L4
R6
C3
C2
C13
TR3
C4
R7
FL2
C28
R8
R5
R4
R24
C9
R25
R21
L9
C103
R9
C8
C7
VL2
C1
C5
R11
R20
C20
R18
C22
IC1
R12
R13
C6
FL4
C21
VL
S2
R1
VL6
R14
R15
JC2
R7
EOG
EOH-N
C26
R10
R25
C23
EK-N
R19
P1
R17
JC5
JC4
J
EO
9
5
1
12
10
15
20
24

VIF-Hi-Fi PCB F5001A5010(N1)

SINGLE CHIP TRANSISTOR



NOTE : PART DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.


IC1
LA7577N
TR3
2SC2480
TR6
2SD601A
TR7
2SD601A
VL2
JPS-105
TRAP41.4M
VL1
JPS-105
TRAP31.9M
VL6
VL7
JPS-241
AFT38.9M
VL8
JPS-107
VCO38.9M
AFT ADJ
VCO ADJ
TRAP ADJ 41.4M
TRAP ADJ 31.9M
AGC ADJ
FM DET ADJ
VR1
22K
EA.EK-N ONLY
EOH-N ONLY
EK-N: JPS-061 SIF/I
EA EOH-N: JPS-062 SIF B/G
FL1
FL2
FL3
FL4
EK-N: SFT6.0MA
EA. EOH-N: SFT5.5MA
JS2
JS3
C12 CH18P (J)
R30 1K
C16 (M) 0.068 (J)
C27 CH100P(J)
C17 0.01
R29 68
R26 10K
R27 10K
R28 1K
R8 150 1/8W
R4 4.7K
R6 470
L4 *1
C1 2200P
C2 2200P
C3 2200P
C4 2200P
C13 0.01
R5 820
R7 27
R1 2.2K
C6 SL330P(J)
R10 1.8K
C26 0.47/50
C7 0.01
R11 10K
C5 0.01
R13 10K
R12 1.6K
C25 0.022 (M) EK-N ONLY
R15 *1
R14 *1
R18 680
R19 1K
R17 0
C21 1000P
C22 0.01
C19 0.47/50
R22 220
R20 *1
C20 *1
L10 *1
L9 *1
R21 *1
R23 1.5K
C23 10/16
R25 *1
R24 *1
C9 0.01
C11 10/16
C10 0.01
C28 0.01
C8 0.01
R9 2.2K
L5 2.2
AFT
IF AGC
LOCK DET
VCO
APC DET
APC TIME CONST SW
VIDEO AMP
VIDEO DET
PRE AMP
IF AMP
N.S.C
EQ AMP B/W
MIX
AGC
FM DET
LIM AMP
P2
PH2P
SIF.OUT 1
A.GND 2
TO MAIN PCB (5/5) WF701 OR NICAM PCB P2
VIF-HiFi PCB F5001A5010
INT.A 7
VCC 6
IF 5
A.GND 4
INT.V 3
AGC.OUT 2
AFT.OUT 1
P1 IL-PCB-G07PL
TO MAIN PCB(5/5) RF BLK
A B C D E F G H
1 2 3 4 5 6

*1

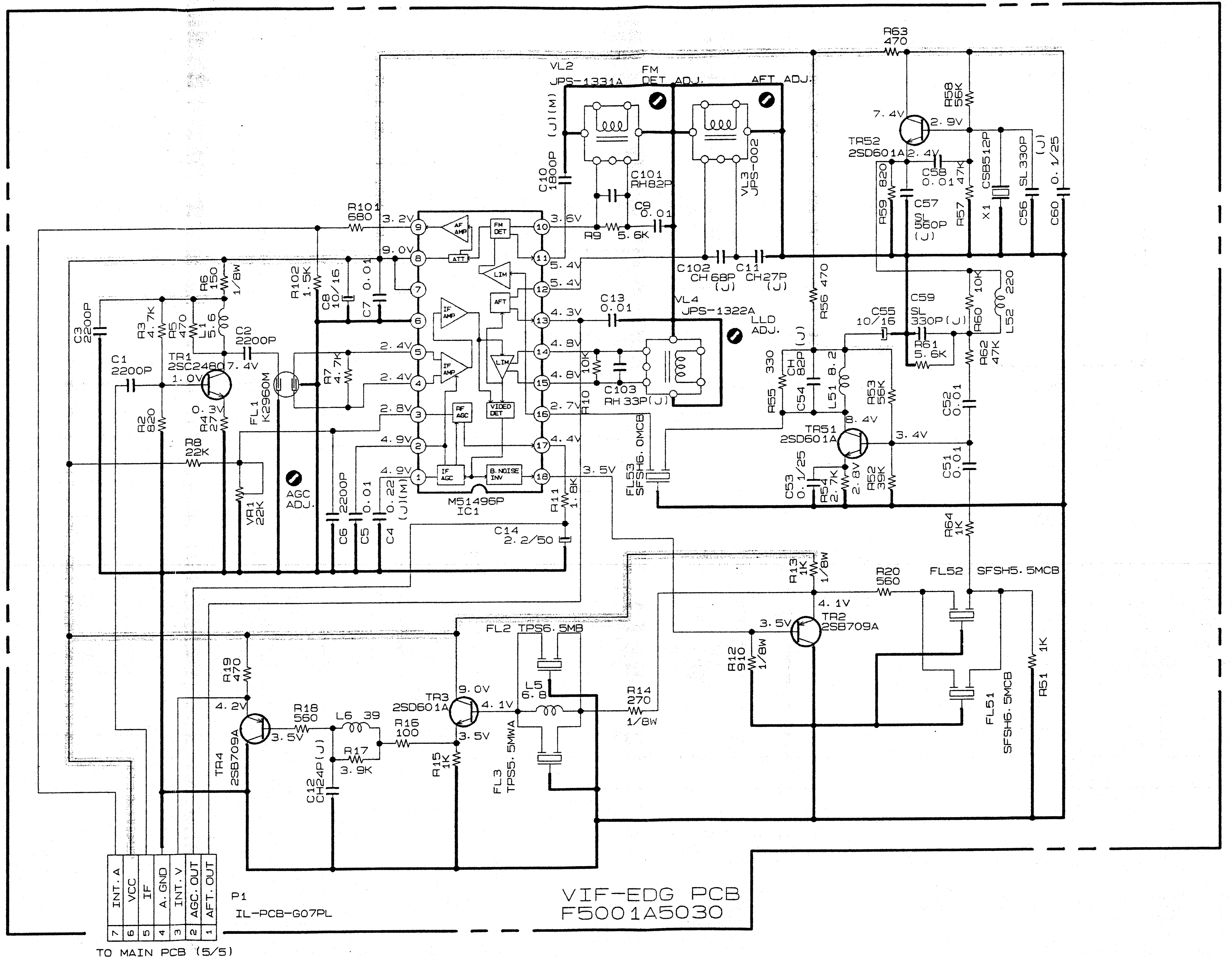
	EA	EK-N	EOH-N
FL1	SAF33.4MC70Z	SAF33.0MCD70Z	SAF33.0MC70Z
FL2	SAF38.9MZW70Z	TSF5330	TSF5330
FL3	TPS5.5MWA	TPS6.0MB	TPS5.5MWA
L4	2.7	0.68	5.6
R21	220	270	330
L9	4.7	8.2	15
R20	430	180	470
C20	CH24P	CH20P	CH16P
L10	39	39	39
R14	3.9K	3.3K	3.9K
R15	0	910	0
R24	1.5K(1/8W)	1.8K(1/8W)	1.8K(1/8W)
R25	5.6K	2.2K	2.2K

NOTE
UNLESS OTHERWISE
SPECIFIED
ALL RESISTORS
IN OHMS 1/10W (J)
ALL INDUCTORS
IN µH
ALL ELECTROLYTIC
CAPACITORS IN µF/WV
[M] IS MYLAR CAPACITOR

INDICATED VOLTAGES WERE MEASURED
DURING E-E (STOP) MODE.
(WHEN A STATION WAS BEING RECEIVED)

▬ B(POWER SUPPLY) LINE

VIF Hi-Fi
(EA-D/EK-N/EO-D/EO-DN)
& OEM MODELS
SCHEMATIC DIAGRAM
NO. 11-9 F5003801M

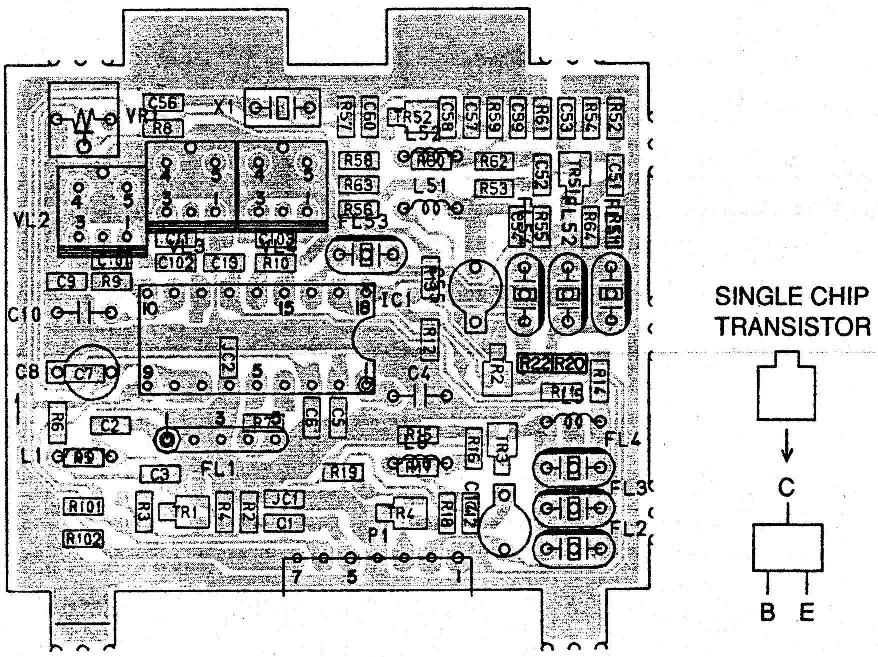

VL2
JPS-1331A
FM DET ADJ.
AFT ADJ.
VL3
JPS-002
C10 1800P (J)(M)
C101 RH82P
C9 0.01
R9 5.6K
R101 680
3.2V
9.0V
3.6V
5.4V
5.4V
4.3V
4.8V
4.8V
2.7V
4.4V
3.5V
2.4V
2.4V
2.8V
4.9V
4.9V
R102 1.5K
C8 10/16
C7 0.01
C102 CH 68P (J)
C11 CH27P (J)
C13 0.01
VL4
JPS-1322A
LLD ADJ.
C103 RH 33P (J)
R10 10K
AF AMP
FM DET
ATT
LIM
AFT
IF AMP
IF AMP
LIM
RF AGC
VIDEO DET
IF AGC
B.NOISE INV
M51496P
IC1
C3 2200P
R3 4.7K
R5 470
R6 150 1/8W
L1 5.6
C2 2200P
C1 2200P
TR1 2SC2480
1.0V
7.4V
0.3V
R4 27K
R20 820
R8 22K
VR1 22K
AGC ADJ.
FL1 K2960M
R7 4.7K
C6 2200P
C5 0.01
C4 0.22 (J)(M)
C14 2.2/50
R11 1.8K
FL53 SFSH6.0MCB
R63 470
R58 56K
7.4V
2.9V
TR52 2SD601A
2.4V
C58 0.01
R59 820
C57 SL 560P (J)
R57 47K
X1 CSB512P
C56 SL 330P (J)
C60 0.1/25
R56 470
C59 SL 330P (J)
R60 10K
L52 220
C55 10/16
R61 5.6K
R62 47K
R55 330
C54 CH 82P (J)
L51 8.2
R53 56K
TR51 2SD601A
8.4V
3.4V
C52 0.01
C51 0.01
C53 0.1/25
R54 2.7K
2.8V
R52 39K
R64 1K
R13 1K 1/8W
R20 560
FL52 SFSH5.5MCB
4.1V
3.5V
TR2 2SB709A
R12 91 1/8W
R51 1K
FL51 SFSH6.5MCB
FL2 TPS6.5MB
L5 6.8
R14 270 1/8W
FL3 TPS5.5MWA
R19 470
4.2V
TR4 2SB709A
3.5V
R18 560
L6 39
R16 100
R17 3.9K
C12 CH24P (J)
TR3 2SD601A
9.0V
4.1V
3.5V
R15 1K
INT. A
VCC
IF
A. GND
INT. V
AGC. OUT
AFT. OUT
7 6 5 4 3 2 1
P1
IL-PCB-G07PL
VIF-EDG PCB
F5001A5030
TO MAIN PCB (5/5)
RF BLOCK

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/10W (J)
ALL INDUCTORS IN µH
ALL ELECTOLYTIC CAPACITORS
IN µF/WV
[M] IS MYLAR CAPACITOR

▨ B(POWER SUPPLY) LINE

INDICATED VOLTAGES WERE MEASURED
DURING E-E(STOP)MODE.
(WHEN A STATION WAS BEING RECEIVED)

VS-G780・796EDG
VIF EDG
SCHEMATIC DIAGRAM
NO. 11-10 F5003803M


VR1
C56
R8
X1
R57
C60
TR52
C58
C57
R59
C99
R61
C53
R54
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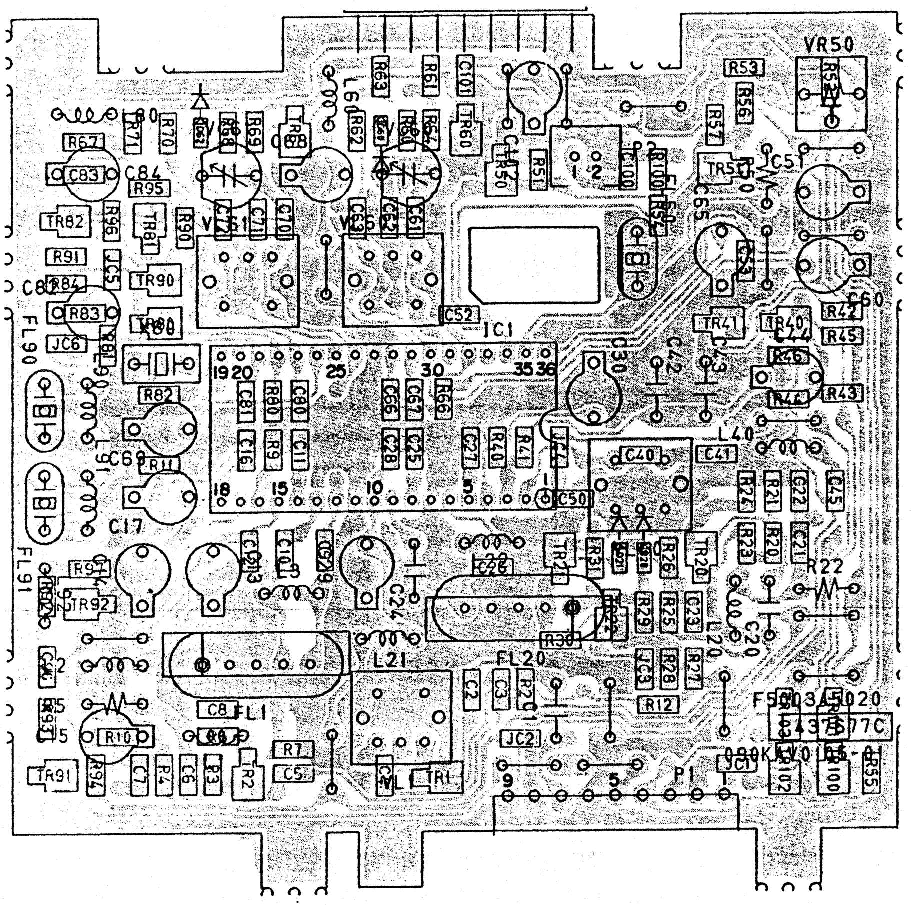
L52
R60
R62
R58
R63
R56
L51
R53
C52
TR51
C51
R51
R64
R55
FL52
C54
FL53
VL2
C11
C103
C101
C102
C19
R10
C9
R9
C10
IC1
R13
R2
R22
R20
R14
R15
C4
JC2
C8
C7
R6
C2
R7
C6
C5
R16
TR3
FL4
L1
R5
C3
FL1
R19
R17
FL3
FL2
R101
R102
R3
TR1
R4
JC1
C1
TR4
R18
C42
P1
7
5
1
SINGLE CHIP TRANSISTOR
C
B
E

VIF-EDG PCB F5001A5030(N1)

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.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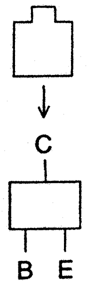
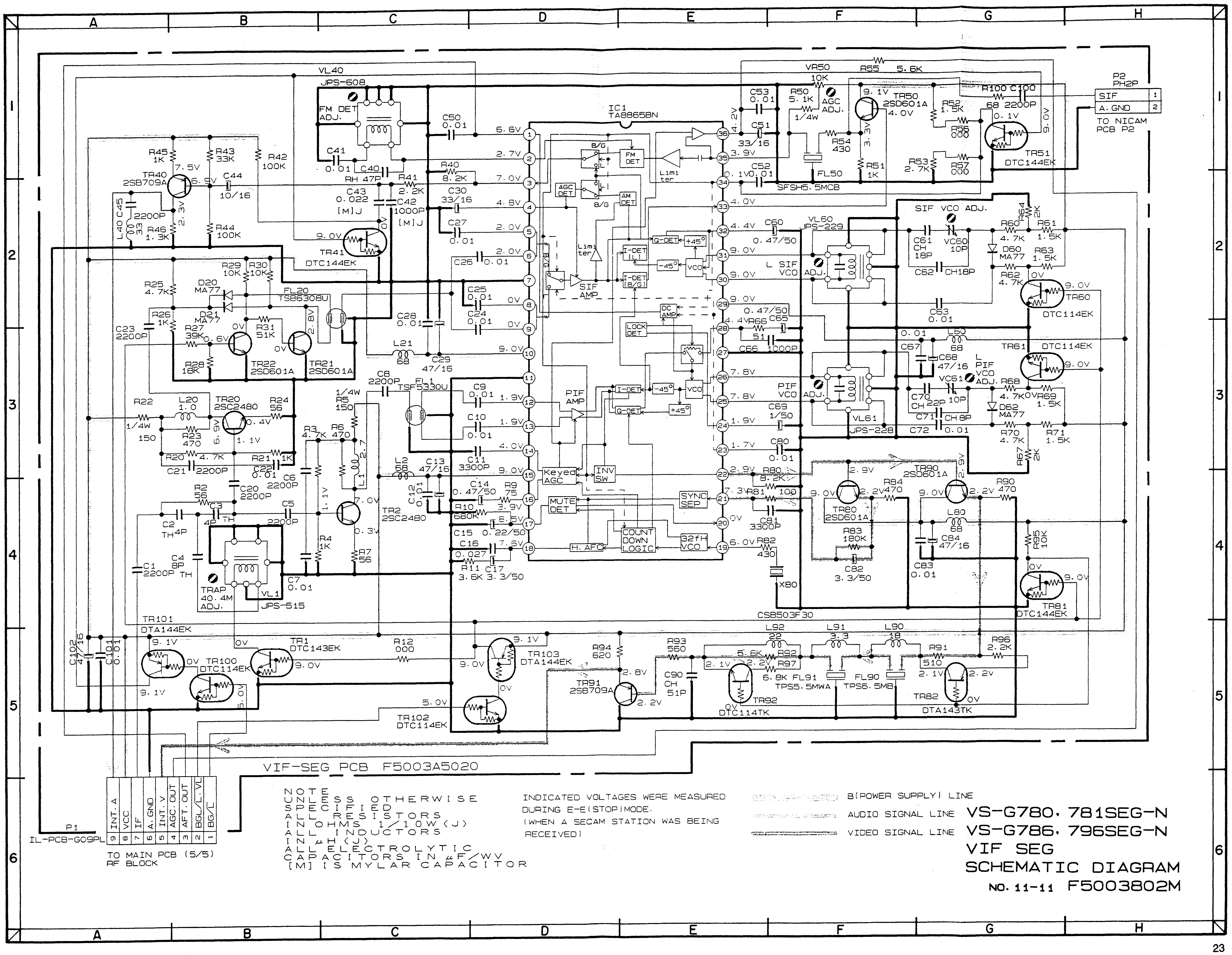
R53
R56
R57
L60
R63
R61
C101
R62
R60
TR60
R67
C83
C84
R95
TR82
R96
TR81
R90
R91
JC5
TR90
R84
R83
JC6
FL90
C70
C71
C72
C61
C62
C63
C51
C65
R50
R51
C100
TR50
C52
IC1
19
20
25
30
35
36
18
15
10
5
1
C81
R80
C80
C66
C67
R66
C16
R9
C11
C28
C25
C27
R40
R41
C50
C30
C42
C43
TR41
TR40
R42
R45
R46
R43
R44
C60
L40
C40
C41
R26
R21
C22
C45
R24
R23
R20
C21
R22
TR20
C20
L20
R82
R11
C69
C17
FL91
R97
TR92
C19
C29
C24
C26
TR21
R31
R30
R29
R25
C23
L21
FL20
C2
C3
JC2
JC3
R28
R27
R12
P1
9
5
JC1
F5003A5020
R102
R100
R55
FL1
C8
R10
R7
C5
TR1
TR2
R3
C6
R4
C7
R94
TR91
R93

VIF - SEG PCB F5003A5020

SINGLE CHIP TRANSISTOR




IC1
TA8865BN
VL40
JPS-608
FM DET ADJ.
VR50
AGC ADJ.
FL50
SFSH5.5MCB
P2
PH2P
1 SIF
2 A.GND
TO NICAM PCB P2
SIF VCO ADJ.
VL60
JPS-229
L SIF VCO ADJ.
PIF VCO ADJ.
VL61
JPS-228
L PIF VCO ADJ.
FL1
TSF5330U
FL20
TSB6308U
TRAP 40.4M ADJ.
VL1
JPS-515
X80
CSB503F30
FL91
TPS5.5MWA
FL90
TPS6.5MB
TR1 DTC143EK
TR2 2SC2480
TR20 2SC2480
TR21 2SD601A
TR22 2SD601A
TR40 2SB709A
TR41 DTC144EK
TR50 2SD601A
TR51 DTC144EK
TR60 DTC114EK
TR61 DTC114EK
TR80 2SD601A
TR81 DTC144EK
TR82 DTA143TK
TR90 2SD601A
TR91 2SB709A
TR92 DTC114TK
TR100 DTC114EK
TR101 DTA144EK
TR102 DTC114EK
TR103 DTA144EK
VIF-SEG PCB F5003A5020
P1
IL-PCB-G09PL
9 INT. A
8 VCC
7 IF
6 A. GND
5 INT. V
4 AGC. OUT
3 AFT. OUT
2 BGL/L, VL
1 BG/L
TO MAIN PCB (5/5)
RF BLOCK

NOTE
UNLESS OTHERWISE SPECIFIED
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[M] IS MYLAR CAPACITOR

INDICATED VOLTAGES WERE MEASURED DURING E-E(STOP)MODE.
(WHEN A SECAM STATION WAS BEING RECEIVED)

B(POWER SUPPLY) LINE
AUDIO SIGNAL LINE
VIDEO SIGNAL LINE

VS-G780, 781SEG-N
VS-G786, 796SEG-N
VIF SEG
SCHEMATIC DIAGRAM
NO. 11-11 F5003802M

INFORMATION OF ICs & FLDs

LA71507ML (Multi VHS VTR audio and video signal processor)

PIN No.	PORT NAME	I/O	FUNCTION
1	A.REC-OUT	O	Linear audio REC signal output.
2	A.GND	–	Ground pin for linear audio section.
3	A.AUTO BIAS-IN	I	Linear audio auto bias input pin.
4	A.EQ-SW	–	Linear audio equalizer switching pin.
5	A.AUTO BIAS-C	–	Be connected to the collector of the auto bias drive transistor.
6	A.AUTO BIAS-B	–	Be connected to the base of the auto bias drive transistor.
7	A.EQ-IN	I	Linear audio PB equalizer AMP input pin.
8	A.EQ-NFB	–	Linear audio PB equalizer AMP negative feedback pin.
9	A.EQ-SW1	–	Linear audio PB equalizer AMP SP/LP equalizer switching pin.
10	A.EQ-OUT	O	Linear audio PB equalizer AMP output pin.
11	A.LINE/PB-IN	I	Linear audio PB equalized signal and the CALL REMOCON swept signal input pin.
12	AGC-TC1/BAL	–	Filter pin for AGC and carrier leak balancer.
13	ACC-FILT	–	Filter pin for the ACC circuit.
14	REC.C-OUT	O	REC chroma signal output pin.
15	PB.Y-FM/C-IN	I	PB Y FM and PB low chroma signal (from PRE AMP) input pin.
16	EQ-FILT	–	Filter pin for the equalizer circuit.
17	PB.EQ-OUT	O	PB equalizer circuit output pin.
18	REC.Y-FM-OUT	O	REC Y signal output pin.
19	REC.H-OUT	O	REC AMP control pin (Not used).
20	PB.Y-FM-IN	I	PB Y FM signal input pin.
21	TRICK-H	O	PRE AMP control output when trick mode (trick mode: H).
22	AGC-TC2	–	Filter pin for the AGC circuit.
23	PEAKING	–	PB emitter peaking control pin.
24	MAIN EMPH	–	Filter pin for main emphasis circuit.
25	REC.Y/DE-EMPH	O	REC Y signal and PB main de-emphasis signal output pin.
26	CLAMP-IN	I	REC or PB-Y signal input pin of the CLAMP circuit.
27	Y.GND	–	Ground pin for the Y-signal circuit.
28	VIDEO IN1	I	Video input 1 pin.
29	FBC-FILT	–	Filter pin for feedback clamp.
30	VIDEO IN2	I	Video input 2 pin.
31	REG	–	Capacitor connecting pin for the internal regulator.
32	VIDEO IN3	I	Video input 3 pin.
33	QV,QH-INS	I	Quasi V pulse, Quasi H pulse insert pin or character insert pin.
34	VPS OUT	O	Selected VIDEO IN signal output pin for VPS/PDC circuit.
35	AGC-IN	I	Video AGC AMP input pin.
36	Y-Vcc	–	Power supply pin for the Y signal circuit.
37	SYNC-OUT	O	Separated composite sync signal output pin.
38	VIDEO-OUT	O	E-E/PB composite video signal output pin.
39	VCA-FILT	–	Filter pin for the VCA of the YNR circuit.
40	VCA-IN	I	YNR-VCA clamp circuit input pin. (1H delayed signal input.)
41	60/$\overline{50}$	O	V-sync detection output (60 HZ: H, 50 Hz: L)
42	Y-CCD DRIVE	O	YNR output pin to the CCD 1H delay line.
43	NTSC-H	O	NTSC mode control output (NTSC: H)
44	PB.APC2	–	Capacitor connecting pin.
45	PB.CHROMA-IN	I	PAL/SECAM/NTSC PB chroma signal input to the Y/C mixing circuit.
46	PB.CHROMA-OUT	O	PAL/NTSC PB chroma signal output pin.
47	C-Vcc	–	+5 V power supply for chroma circuit.
48	C-CCD DRIVE2	O	Chroma signal output pin to the CCD comb filter.
49	SLD-FILT	–	Filter pin for SLD circuit.
50	C-CCD DRIVE1	O	Chroma signal output pin to the CCD comb filter.
51	AFC/APC FILT	–	Filter pin for the AFC & APC circuit.
52	C-CCD-IN	I	Chroma signal input pin from the CCD comb filter.
53	PA-STOP/TR-SW	–	TR switch turns on only PAL phase alternate stop mode.
54	REC.APC FILT	–	Filter pin for REC APC circuit.
55	VX01/X01-IN	I	3.58 MHz crystal connecting pins. These pins should be pulled up to Vcc when 4.43 MHz only mode.
56	VX01/X01-OUT	O	
57	C-GND	–	Ground pin for the chroma circuit.
58	VX02/X02-OUT1	O	4.43 MHz crystal oscillator output.
	PB.H-OUT		PB H output pin for SECAM chroma IC control.
59	VX02/X02-OUT2	O	4.43 MHz crystal connecting pins.
60	VX02/X02-IN	I	
61	KILL-FILT	–	Filter pin for color killer detector (color:1.9 V, killer:3.1 V).
62	ACK/SLD-OUT	O	ACK DET OUT (killer mode: more than 4.0 V, color mode: 0 V).
63	SCK-IN	I	Serial clock (I2.SCL) input pin.
64	SDA-IN	I	Serial data (I2.SDA) input pin.
65	SECAM-DET	O	NTSC mode → only S-VHS PB: L except NTSC mode → SECAM detector output (E-E SECAM/MESECAM & PB MESECAM: H).
66	C-ROT-IN	I	Chroma rotation pulse input pin.
67	HEAD-CTL-IN	I	In order to correct color sequence by balanced modulator in the PAL trick mode, Input a head control pulse to this pin.
68	SECAM-DET-LPF	–	Capacitor connecting pin for SECAM detector low pass filter.
69	SECAM-DET-ADJ	–	Detection sensitivity can be adjusted by externally adding certain voltage to this pin.
70	A.MUTE-CTL	I	Linear audio muting control input pin.
71	A.LINE-IN1	I	Linear audio line input 1 pin.
72	A.ALC-DET	–	Linear audio ALC (automatic level control) detector filter pin.
73	A.LINE-IN2	I	Linear audio line input 2 pin.
74	A.VREF-FILT	–	Filter pin for linear audio V-reference circuit.
75	A.LINE-IN3	I	Linear audio line input 3 pin.
76	A.Vcc	–	Power supply pin for linear audio circuit.
77	A.LINE-OUT	O	Linear audio PB or E-E signal output pin.
78	A.ALC-DET-IN	I	ALC detector input pin.
79	A.REC-IN	I	Linear audio REC AMP input pin.
80	A.HEAD-SW	–	Linear audio head switch pin. (REC: H, PB: L)

LA72631M-MPB (VHS Hi-Fi audio REC/PB processor)

PIN No.	PORT NAME	I/O	FUNCTION
1	ALC.DET	–	ALC detection pin for the RF converter output (57 pin).
2	BS-L	I	L-ch BS signal input pin.
3	BSMONI-L	I	L-ch BS monitor input pin.
4	INPUT.SW-L	O	L-ch input selector output pin.
5	ALC.IN-L	I	L-ch ALC input pin.
6	TUNER.IN-L	I	L-ch TUNER signal input pin.
7	L.GND	–	Ground pin for the L-ch.
8	MUTE	I	Mute control input pin.
9	NR.DET-L	–	L-ch NR (noise reduction) weighting detector pin.
10	NR.FILT1-L	–	L-ch NR weighting filter 1 pin.
11	NR.FILT2-L	–	L-ch NR weighting filter 2 pin.
12	CCA.REF-L	–	L-ch CCA (Current controlled AMP) reference pin.
13	1/2Vcc	–	1/2 Vcc pin.
14	Vcc-L	–	+5 V power supply pin for L-ch.
15	NR.EMPH-L	–	L-ch NR emphasis pin.
16	FIXED.EMPH-L	–	L-ch fixed emphasis pin & monitoring control of 29 pin (PB mode).
17	TRACKING	–	PB: Hi-Fi audio RF envelope detect output. REC: monitoring control for 29 pin.
18	PB.FM	I	PB FM signal input pin.
19	PB.FM-OUT	O	PB head AMP output pin.
20	Vcc5V	–	+5 V power supply pin for head AMP.
21	AGC.DET	–	FM AGC detector pin.
22	CH-1.IN	I	Head AMP channel-1 input pin.
23	H.GND	–	Ground pin for the HEAD AMP.
24	PB.GND	–	In order to input the CH-1 & CH-2 FM signal, this pin will be grounded internally in PB mode.
25	CH-2.IN	I	Head AMP channel-2 input pin.
26	REC.OUT	O	REC current AMP output pin.
27	CUR.ADJ	–	REC current control pin.
28	HiFi/NOR	–	Hi-Fi / normal (linear audio) detect output.
29	MON	O	REC mode: FM MIX out (L), L-ch VCO (M) or R-ch VCO (H) can be monitored by controlling the pin 17's voltage. PB mode: The HOLD pulse & DO pulse can be monitored by controlling the pin 16's voltage. Also BPF(L-ch & R-cH) can be monitored with serial control.
30	VccLOG	–	+5 V power supply pin for the logic circuit.
31	SDA.IN	I	Serial data input pin.
32	SCK.IN	I	Serial clock input pin.
33	REC.MUTE	I	REC mute control input pin.
34	LOGIC.GND	–	Ground pin for logical circuit.
35	A.SWP	I	Hi-Fi audio switching pulse input pin.
36	Vcc-R	–	+5 V power supply pin for R-ch.
37	FIXED.EMPH-R	–	R-ch fixed emphasis pin.
38	NR.EMPH-R	–	R-ch NR emphasis pin.
39	CCA.REF-R	–	R-ch CCA (Current controlled AMP) reference pin.
40	NR.FILT2-R	–	R-ch NR weighting filter 2 pin.
41	NR.FILT1-R	–	R-ch NR weighting filter 1 pin.
42	NR.DET-R	–	R-ch NR (noise reduction) weighting detector pin.
43	R.GND	–	Ground pin for the R-ch.
44	TUNER.IN-R	I	R-ch TUNER signal input pin.
45	ALC.IN-R	I	R-ch ALC input pin.
46	INPUT.SW-R	O	R-ch input selector output pin.
47	BSMONI-R	I	R-ch BS monitor input pin.
48	BS-R	I	R-ch BS signal input pin.
49	EXT2-R	I	R-ch external input pin (2).
50	LOG.OUT-R/ EXT2TH-R	O	R-ch LOG AMP output pin. R-ch EXT2 through monitor input.
51	ALC.DET	–	ALC detector pin.
52	EXT1-R	I	R-ch external input pin (1).
53	NOR.OUT	O	Normal (Linear) audio REC signal output pin.
54	NOR.IN	I	Normal (Linear) audio PB/E-E signal input pin.
55	MUTE-R	–	R-ch line out muting control pin.
56	L.OUT-R	O	R-ch line out pin.
57	MOD.OUT	O	L-ch/R-ch mixed output for the RF converter.
58	L.OUT-L	O	L-ch line out pin.
59	MUTE-L	–	L-ch line out muting control pin.
60	Vcc9V	–	+9 V power supply input for the line out.
61	EXT1-L	I	L-ch external input pin (1).
62	Vcc.AL	–	Power supply for power on mute control when the power is turned on.
63	EXT2-L	I	L-ch external input pin (2).
64	LOG.OUT-L/ EXT2TH-L	O	L-ch LOG AMP output pin. L-ch EXT2 through monitor input.

LA70011 (4-CH REC/HEAD AMPLIFIER)

PIN No.	PORT NAME	I/O	FUNCTION
1	TRICK.H	I	3.0V > : trick 1 mode, 3.0 - 1.0 V : normal mode, 1.0 V < : trick 2 mode.
2	COMP-OUT	O	Comparator output for head switching between LP and SP head during search (trick) mode. (LP>SP ENV : "H") (PB : H : > 4.0V, L : < 0.7 V REC : open)
3	HA	I	SP/LP select control pin. (1.5 V > : LP mode, 1.5 V < : SP mode)
4	SW30	I	Switching pulse input (H-ch : > 1.0 V, L-ch : < 1.0 V). (SP mode : L→CH-1, H→CH-2, LP mode : L→CH-2, H→CH-1)
5	H-SYNC	I	H sync input pin. (threshold level : 1.5 V)
6	ENVDET-OUT	O	Envelope detect output for auto tracking.
7	PB-OUT	O	PB Y-FM signal output.
8,20	GND	–	Ground pin.
9	REC-Y IN	I	REC Y-FM signal input pin.
10	REC-C IN	I	REC chroma signal input pin.
11	REC/MUTE/PB	I	REC/REC mute/PB control pin. 1.0 V < : PB mode, 1.0V - 3.0 V : REC (mute) mode, 3.0 V > : REC mode.
12	REC.CUR ADJ2	I	REC current adjust pin. REC current can be adjusted within –6.0 dB to +3.5 dB from the value that is set at 14 pin (REC.CUR ADJ1).
13	Vcc	–	Power supply of this IC.
14	REC.CUR ADJ1	I	If 12 pin is open, REC current is set by the resistor that is connected between 13 pin and this pin.
15	REC AGC FILT	–	Capacitor connecting pin for REC AGC circuit.
16	SP CH-1 IN	I	PB : SP channel-1 head AMP input. (REC : Vcc output)
17	REC SP OUT	O	REC SP pull down output.
18	PB FILT	I	This pin will be internally grounded on PB mode.
19	SP CH-2 IN	I	PB : SP channel-2 head AMP input. (REC : Vcc output)
21	LP CH-2 IN	I	PB : LP channel-2 head AMP input. (REC : Vcc output)
22	REC LP OUT	O	REC LP pull down output.
23	PB FILT	I	This pin will be internally grounded on PB mode.
24	LP CH-1 IN	I	PB : LP channel-1 head AMP input. (REC : Vcc output)

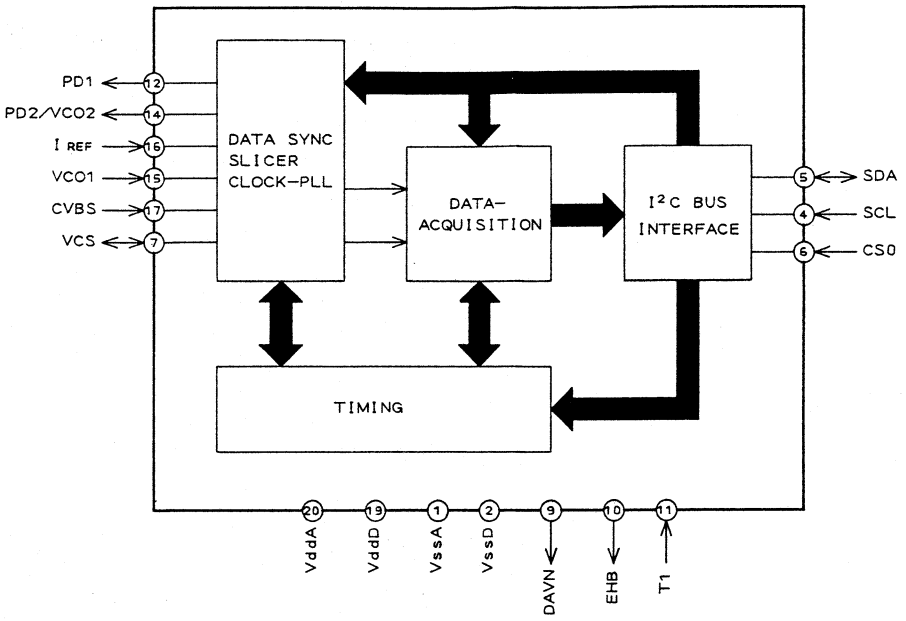
M37777MAA VXHSY (Servo & system control MI-COM)

PIN No.	PORT NAME	I/O	FUNCTION
1	SS	I	Tape start sensor input.
2	ES	I	Tape end sensor input.
3,21-24 32	NC	–	Not used.
4	TV/VCR	O	RF converter on/off control output.
5	BAND A	O	Tuner band select control.
6	BAND B		
7	WS/DEC.CTL	I	Decoder & wide screen judge input. (0 - 1.2V : not scrambled, 1.6 - 3.3 V : wide screen, 3.8 - 5.0 V : scrambled)
8	CK.DET	I	PAL (NTSC) chroma judge input (color killer).
9	HIFI ENV DET	I	Hi-Fi audio RF envelope detect input for I-HQ and auto tracking.
10	V.ENV.DET	I	Video RF envelope detect input (A/D) for I-HQ and auto tracking.
11	V.REC.VOL	O	Video head REC current control output (D/A).
12	V.REC.S	O	Video recording control output (L/M/H) (REC: H).
13	VP	O	Quasi V sync output & video mute control output.
14	REMOCON	I	Remote control signal input pin.
15	C.ROT	O	Chroma rotation pulse output.
16	HEAD.CTL	O	SP/LP head select control output.
17	COMP.OUT	I	Comparator signal input from PRE AMP IC for video head switching during CUE/REV mode.
18	V.SWP	O	Video head CH-1 and CH-2 switching control output.
19	A.SWP	O	Hi-Fi audio head CH-1 and CH-2 switching control output.
20	A.REC.S	O	Audio recording on/off control output (REC: L).
25	SP/LP	O	Video/audio EQ control output regarding tape speed (SP: L).
26	CDC	O	Color sequence compensation control when LP trick mode. (PAL, LP, trick: L)
27	SECAM	O	MESECAM select control output (NTSC/PAL/SECAM: H, MESECAM: L).
28	SEC.MES	O	SECAM & MESECAM select control output (SECAM & MESECAM: L)
29	A.MUTE	O	Audio signal output muting control.
30	BGL/L.VL	O	VIF RF system switching control output (SEG model only).
31	BG/L		
33	NT.SP	O	Audio EQ control output for NTSC SP mode.
34	NUB	–	Not used.
35	NUA		
36	CLKSEL	I	Clock select pin. (connected to Ground)
37	Vcc	I	+5 V power supply input pin.
38	XTAL.1 IN	I	Crystal connecting pin for main clock (16 MHz).
39	XTAL.1 OUT	O	
40	Vss	–	Ground pin.
41	XTAL.2 IN	I	Crystal connecting pin for sub clock (32.768 kHz).
42	XTAL.2 OUT	O	
43	RESET	I	Reset input of this IC.
44	MODU/BG	O	MODU: RF converter on/off control (except EM-K)/BG: audio system select control (EM-K only).
45	AFT LOW	O	AFT on/off control output (L: on, H: off)
46	VJ/DK	O	VJ: Video signal judge output. (L: no video signal) (except EM-K)/ DK: audio system select control (EM-K only).
47 - 49	DCH1 - 3	O	Digital tuner control output.
50	S.DET	I	SECAM (MESECAM) judge input (SECAM or MESECAM: H).
51	T.MUTE	O	Tuner muting control output (mute: H).
52	I/O CTL.A	O	I/O control signal output.
53	I/O CTL.B		
54	TEST.CTL	O	PB CTL signal monitoring pin.
55	CALL.REM	O	Call REMOCON function on/off control.
56	P.DOWN	I	Power down detect input.
57	AL	O	RF BLK +9 V power supply and AL5 V power supply on/off control.
58	TRQ.UP	O	Loading motor drive voltage control output. (torque up: H)
59	LM.F	O	Loading motor direction control.
60	LM.R		
61 - 63	RSW3 - RSW1	I	Rotary switch (mechanism position detect switch) input.
64	CTL.GAIN	O	CTL AMP gain select control output (FF/RWD: L).
65	DAVN	I	VPS/PDC reception signal input pin.
66	FLD.STB	O	Strobe signal output to the OSD IC.
67	OSD.CS	O	Chip select output to the FLD/operation MI-COM.
68	SYS.DATA	O	Serial data output to the OSD & FLD/operation MI-COM.
69	OSD.DATA	I	Serial data input from the FLD/operation MI-COM.
70	SCLK/CLK	O	Serial clock output to the OSD & FLD/operation MI-COM.
71	I2.SCL	O	Serial clock output to the I2C BUS line.
72	I2.SDA	I/O	Serial data input/output to/from the I2C BUS line.
73	CALL.REM	O	Sweep signal output for the "CALL REMOCON" function.
74	CM.STOP	O	Capstan motor on/off control output.
75	F/R	O	Capstan motor direction control.
76	TU.PWM	O	PWM pulse output for tuning control.
77	CM.PWM	O	PWM pulse output for the capstan motor phase & speed control.
78	DM.PWM	O	PWM pulse output for the drum motor phase & speed control.
79	SRP	I	Supply reel rotation pulse input pin.
80	TRP	I	Take up reel rotation pulse input pin.
81	HI.SPEED	O	Not used (Capstan motor drive voltage control output).
82	SHORT	I	Power supply voltage (AL9 V) too high detect input. (more than 9 V: L)
83	REC.SAF	I	REC safety switch input.
84	C.SYNC	I	Composite sync signal input for servo control.
85	CM.FG	I	Capstan motor FG signal input pin.
86	DM.PG	I	Drum motor PG signal input pin.
87	DM.FG	I	Drum motor FG signal input pin. (24 pulses/1revolution)
88	AMP.Vss	–	CTL AMP ground pin.
89	AMP.VREF.OUT	O	Analog AMP reference voltage output.
90	AMP.VREF.IN	I	Analog AMP reference voltage input.
91	CTL–	I/O	CTL – in/out pin.
92	CTL+	I/O	CTL + in/out pin.
93	CTL+SWOUT	O	CTL+ SW output.
94	CTL AMP IN	I	CTL AMP input pin.
95	AMPC	I	AMP AC ground pin.-
96	CTL.Vss	I	Ground pin for CTL AMP power supply.
97	CTL.AMP.OUT	O	Output pin of CTL AMP.
98	AMP Vcc	I	+5 V power supply input for AMP section.
99	A.Vcc	I	Reference voltage input of the A/D or D/A converter.
100	AFT.E	I/O	A/D converter input for detecting the tuning point.

SAA7283GP (Terrestrial digital sound decoder)

PIN No.	PORT NAME	I/O	FUNCTION
1,5,6,9, 10,18,19, 20,26,32, 33,40,51, 52,58,60 64	NC	–	Not connected-left open circuit in application.
2	EXTR	I	External analogue input to the right audio channel.
3	FMR	I	FM sound input to the right audio channel.
4	OPR	O	Analogue output from the right audio channel.
7	VROA	O	Internal audio reference voltage buffer output.
8	VSSDAC	–	Quiet Vss to DACs.
11	OPL	O	Analogue output from the left audio channel.
12	FML	I	FM sound input to the left audio channel.
13	EXTL	I	External analogue input to the left audio channel.
14	PORM	–	Active low Power-On Reset Mute. Mute cleared by setting silence bit high in I²C. (internal pull-up)
15	PORA	–	Power-On Reset Audio select. (internal pull-up)
16	REMVE	–	Carrier loop filter connection.
17	REMO	O	Carrier loop filter output.
21	SEYE	O	Sine channel eye pattern output for monitoring.
22	SOFF	–	Sine channel offset compensator capacitor.
23	ASSF1	–	Demodulator Vss.
24	VCLK	O	Carrier loop VCO clock output for monitoring.
25	VDDF1	–	Demodulator VDD.
27	VCONT	I	Carrier loop VCO control voltage input.
28	MIXREF	–	Mixer voltage reference or input when using differential DQPSK signal.
29	DQPSK	I	DQPSK input signal.
30	COFF	–	Cosine channel offset compensator capacitor.
31	CEYE	O	Cosine channel eye pattern output for monitoring.
34	PKDET	–	AGC peak detector storage capacitor.
35	VROF	O	Internal demodulator reference voltage buffered output.
36	IREF	O	Internal demodulator reference current output.
37	VRCF	O	Internal demodulator reference voltage unbuffered output.
38	VDDF2	–	Demodulator VDD.
39	VSSF2	–	Demodulator Vss.
41	CLKLPF	O	Clock loop phase comparator output.
42	XTAL	I	8.192 MHz crystal oscillator input.
43	OSC	O	8.192 MHz crystal oscillator output.
44	VSSx	–	Crystal oscillator Vss.
45	DATAIN	I	Serial data input at 728 k bits/s to decoder.
46	DATAOUT	O	Serial data output at 728 k bits/s from demodulator.
47	PCLK	O	Output clock at 728 kHz to DQPSK demodulator.
48	VSSD	–	Digital Vss.
49	VDDD	–	Digital VDD.
50	$\overline{\text{RESET}}$	I	Active low power-on reset.
53	SCL	I	Clock input for I²C.
54	SDA	I/O	Data input/output for I²C.
55	ADSEL	I	Input that defines I²C address bit 0. (internal pull-up)
56	PORT2	O	Output that it derectly controlled from port 2 bit in I²C.
57	$\overline{\text{MUTE}}$	I	Active low mute input whose function is defined by mutedef bit in I²C.
59	DOBM	O	Digital audio interface output that can be tri-stated via I²C.
61	VDDA	–	Audio VDD.
62	VSSA	–	Audio Vss.
63	VRCA	–	Internal audio reference voltage buffer (high impedance node).

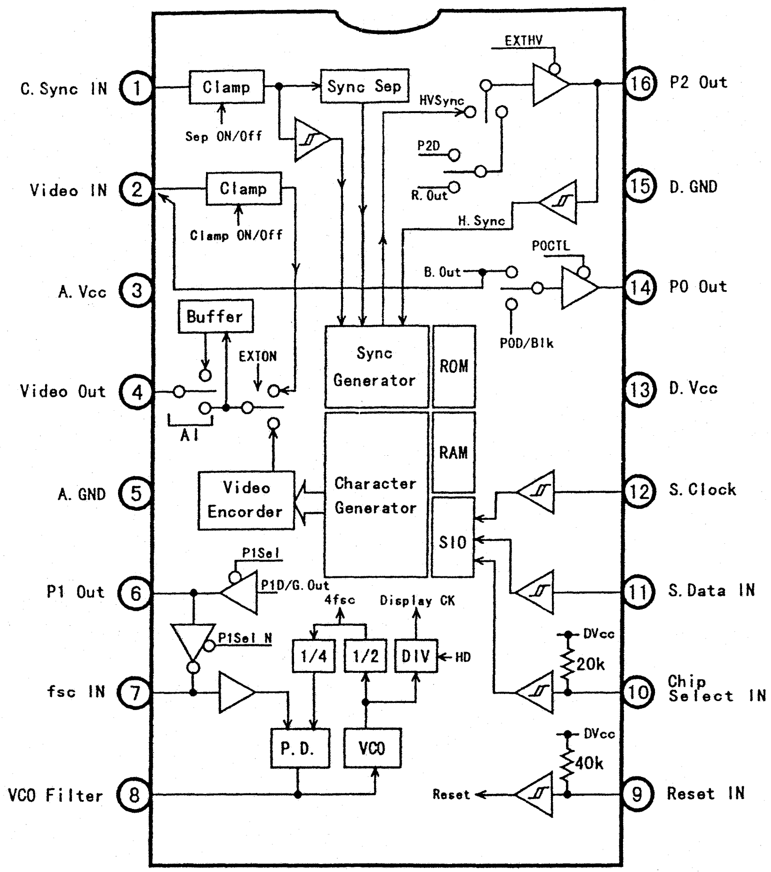
SDA5649X (PDC/VPS decoder)



SDA5650XGEG (VPS/PDC decoder)

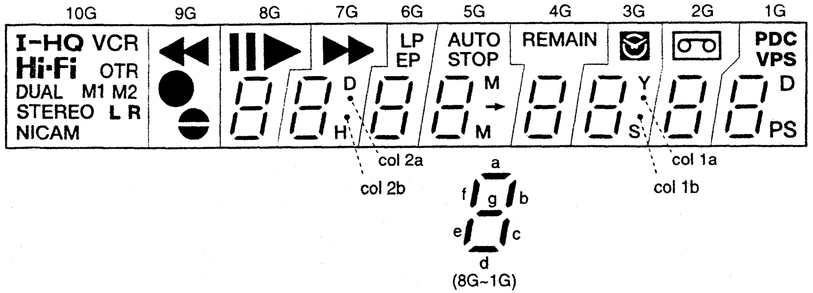
PIN No.	PORT NAME	I/O	FUNCTION
1	Vss	–	Ground pin.
2	VSSA	–	Ground pin for analog section.
3,8,13,18	N.C.	–	Not connected.
4	SCL	I	Serial clock input of I²C-Bus.
5	SDA	I/O	Serial data input of I²C-Bus.
6	CS0	I	Chip select input determining the I²C-Bus addresses: 20H/21H, when pulled low. 22H/23H, when pulled high.
7	VCS	I/O	Video Composite Sync output from sync slicer used for PLL based clock generation.
9	DAVN	O	Data available output active low, when PDC/VPS data is received.
10	EHB	O	Output signaling the presence of the first field active high.
11	TI	I	Test input: activates test mode when pulled high. Connect to ground for operating mode.
12	PD1	O	Phase detector/charge pump output of data PLL (DAPLL).
14	PD2/VCO2	O	Connector of the loop filter for the SYSPLL.
15	VCO1	I	Input to the voltage controlled oscillator #1 of the DAPLL.
16	IREF	I	Reference current input for the on-chip analog circuit.
17	CVBS	I	Composite video signal input.
19	VDDD	–	+5 V positive supply voltage input for the digital circuits.
20	VDDA	–	+5 V positive supply voltage input for the analog circuits.

TC90A24F (Character Generator)


C. Sync IN
1
Video IN
2
A. Vcc
3
Video Out
4
A. GND
5
P1 Out
6
fsc IN
7
VCO Filter
8
16
P2 Out
15
D. GND
14
P0 Out
13
D. Vcc
12
S. Clock
11
S. Data IN
10
Chip Select IN
9
Reset IN
Clamp
Sep ON/Off
Sync Sep
HVSync
EXTHV
P2D
R. Out
H. Sync
Clamp
Clamp ON/Off
POCTL
B. Out
POD/Blk
Buffer
EXTON
AI
Sync Generator
ROM
Character Generator
RAM
SIO
Video Encorder
P1Sel
P1D/G. Out
4fsc
Display CK
P1Sel N
1/4
1/2
DIV
HD
P. D.
VCO
DVcc
20k
DVcc
40k
Reset

FLD FV758G

GRID ASSIGNMENT


10G
9G
8G
7G
6G
5G
4G
3G
2G
1G
I-HQ VCR
Hi-Fi OTR
DUAL M1 M2
STEREO L R
NICAM
D
H
LP
EP
AUTO
STOP
M
M
REMAIN
Y
S
PDC
VPS
D
PS
col 2a
col 2b
col 1a
col 1b
a
f
g
b
e
c
d
(8G~1G)

INTERNAL CONNECTION

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	DUAL	—	a	a	a	a	a	a	a	a
P2	M2	—	b	b	b	b	b	b	b	b
P3	L	—	c	c	c	c	c	c	c	c
P4	NICAM	—	d	d	d	d	d	d	d	d
P5	STEREO	—	e	e	e	e	e	e	e	e
P6	M1	—	f	f	f	f	f	f	f	f
P7	**R**	—	g	g	g	g	g	g	g	g
P8	**I-HQ**	—	—	col 2b	—	→	—	col 1b	—	**PS**
P9	—	—	—	H	—	M (lower)	—	S	—	—
P10	OTR	⊖	▶	col 2a	EP	M (upper)	—	col 1a	—	D
P11	**Hi·Fi**	●	❙	D	LP	STOP	—	Y	—	**VPS**
P12	VCR	◀◀	❙	▶▶	—	AUTO	REMAIN	⏲	📼	**PDC**

ABBREVIATIONS (VIDEO)

ABBREVIATION	EXPLANATION
A	Audio or Analogue
AC	Alternating Current
ACC	Automatic Color Control
A/C	Audio and Control
ADJ	ADJust (ment)
AFC	Automatic Frequency Control
AFT	Automatic Fine Tuning
AGC	Automatic Gain Control
AH	Audio Head
AL	ALways (voltage)
ALC	Automatic Level Control
A-SW.P	Audio SWitching Pulse
A-MUTE	Audio MUTE
ANT	ANTenna
APC	Automatic Phase Control
ASSY	ASSemblY
BAL	BALance
B DOWN	Break DOWN
BGP	Burst Gate Pulse
BLK	BLocK or BLacK
BOP	Blank Output Pulse
BPF	Band Pass Filter
BU	Back Up (voltage)
B/W	Black and White
C	Chroma or Color
CCD	Charge Coupled Device
CCIR	Comit Consultatif International des Radio communications
CH (ch)	CHannel (channel)
CLK	CLocK
CM	Capstan Motor
CN	CoNnector
COMP	COMParator
CSW	Cassette SWitch
CSYNC	Composite SYNC
CTL	ConTrol
CUE	CUE
DAC	Digital to Analog Converter
DC	Direct Current
DEMOD	DEMODulator
DET	DETetct (DETector)
DL	Delay Line
DM	Drum Motor
DOC	Drop Out Compensator
D.P.E	Drum Phase Error
D.PG	Drum Pulse Generator
EE	Electronic to Electronic
EF	Emitter Follower
EMPHA	EMPHAsis
ENV	ENVelope
EP	Extended Play
EP ROM	Erasable Programmable ROM
EQ	EQualizer
FE	Full track Erase
FF	Flip-Flop or Fast Foward
FG	Frequency Generator
Fig	Figure
FLD	FLuorescent Display
FM	Frequency Modulation
Fo	resonance Frequency
FREQ	FREQuency
GND	GrouND
H	Horizontal
HP	Horizontal (sync) pulse
HPF	High Pass Filter
HQ	High Quality System
IC	Integrated Circuit
ID	IDentification
IDL	IDLe (Voltage)
IMS	Interactive Monitor System
INS	INSert
INV	INVerter
L	Left
LED	Light Emitting Diode
LIM	LIMitter
LM	Loading Motor
LM STP	Loading Motor STop
LP	Long Play
LPF	Low Pass Filter
ME-SECAM	Middle East SECAM
MI-COM	MIcro COMputer
MM	Mono-stayble Multi
MOD	MODulator
MRS	Motor ReverSe
NAP	Ntsc Amusement Pal
NG	Noise Gate
NICAM	Near Instanteneous Compand Audio Multiplex
NON-LIN	NON-LINear
N.T.S.C.	National Television System Committee
OSC	OSCillator
PAL	Phase Alternation by Line
PB	Play Back
PCB (P.C.B)	Printed Circuit Board
P-COM	Phase-COMparator
P DOWN	Power DOWN
PG	Pulse Generator
P.I.P	Picture In Picture
PL, PLG	PLunger (PLunGer)
PRG (PGM)	PRoGram (ProGraM)
PU	Pick UP (head, pulse)
PWR	PoWeR
Q	Quality factor
R	Right
RAM	Random Access Memory
REC	RECord
REF	REFerence
REF-V	REFerence Vertical signal
REG	REGulator
REV (REVW)	REView (REVieW)
REW	REWind
RF	Radio Frequency
ROM	Read Only Memory
R.S SW	Record-Safety SWitch
RST (RES)	ReSet (RESet)
RVS	ReVerSe
S	Sensor, Shield
SAW	Surface Acoustic Wave
SC	SimulCast
S CLK	Serial CLocK
SECAM	SÉquentiel Couleur À Mémoire
S & H	Sample and Hold
SLP	Super Long Play
SP	Standard Play
SPD	SPeeD
SRP	Supply Reel Pulse
SRV	SeRVo
SOW	Sync On Word
STBY	STandBY
S.VHS	Super VHS
SW	SWitch
SW'NG	SWitchiNG
SWP	SWitching Pulse
SYNC	SYNChronize
T-AUDIO	Tuner AUDIO
TPZ (TRAPE)	TraPeZoid (TRAPEzoid)
TRK	TRacKing
TRP	Take up Reel Pulse
T/U	Take Up
TV	TeleVision
UHF	Ultra High Frequency
UNR	UNRegulated (voltage)
V	Vertical or Video
VASS	Video Address Search System
VCO	Voltage Controlled Oscillator
VH	Video Head
VHF	Very High Frequency
VHS	Video Home System
VIF	Video Intermediate Frequency
VISS	Video Index Search System
VJ	Video Judge
VM	Voltage for Memory
VOB	Video On Blank
VOW	Video On Word
VP	Vertical (sync) Pulse
VPS	Video Program System
VPT	Video Programming by video Text
VT	Voltage for Tuning
WHT	WHiTe
Y	Luminance
2H	2 Hour (SP)
4H	4 Hour (LP)
6H	6 Hour (SLP/EP)